

# Progress Software for Discrete Manufacturing Solutions

## Robust Relational Database Management

As a complete ERP software, services, and support solution designed for manufacturers working with long lead times and heavy custom engineering content, Aptean Discrete Manufacturing Solutions relies on the powerful OpenEdge platform by Progress Software, to deliver streamlined functionality that effectively answers the business challenges faced by ETO companies.

- OpenEdge Relational Database Management System (RDBMS)
- OpenEdge Transparent Data Encryption (TDE)
- Progress Business Continuity (OpenEdge Management, Replication, Replication Plus)
- Progress Application Server (PAS)
- Progress Developer Studio/OpenEdge Studio

Feature	Enterprise	Workgroup
Maximum Users	23,000	50
Async. Page Writers	Yes	No
After Image Writers	Yes	No
Before Image Writers	Yes	No
Fallover Clusters	Yes	No
Multi-thread Index Build	Yes	1 Thread
Large Files	Yes	No
SMO Tuning (“-spin”)	Adjustable	Set to “1”

As the premier ERP for Engineer to Order organizations, Aptean Discrete Manufacturing Solutions are powered by the OpenEdge platform, designed by Progress Software, in order to provide the most robust, flexible, and scalable ERP application possible, that can efficiently handle the dynamic business processes of the ETO industry.

## Exceeding Business Needs: Progress OpenEdge RDBMS

Essentially the driving engine behind Aptean Discrete Manufacturing Solutions, Progress OpenEdge RDBMS is a high-performance, relational database management system that can scale from single-user laptop systems to massive multiprocessing environments while supporting thousands of concurrent users and terabytes of data.

Through its extensive scalability, broad platform support, and low administration costs, Progress OpenEdge RDBMS is one of the leading embedded database systems deployed in the ERP industry today.

There are two major distinctions of the RDBMS platform. The Enterprise edition has full language functionality for ABL and SQL, along with performance features that allow the Enterprise application to scale up to many thousands of users and a virtually unlimited (exabyte) database size on largescale multiprocessor systems. The Workgroup edition is a costeffective, departmental-level solution that provides performance, multi-user support, and cross-platform interoperability, all at an excellent value. It typically handles up to 50 concurrent users and a database in the 2-20 gigabyte range.

## Business Continuity: OpenEdge Management, Replication & Replication Plus

As today's business entities become more interconnected and evolve into "always-on" cyber-physical entities, it is more imperative than ever to ensure the protection of company critical data. Data and security breaches, user errors, network failures, and even natural disasters can lead to loss of revenue, dissatisfied customers, and unproductivity within your business, unless your organization has a solid contingency plan in place.

To help bridge the gap in the case of a catastrophic data loss, Progress Software's suite of optional Disaster Recovery products help secure and protect your business information against the unforeseen.

Progress OpenEdge Management is a browser-based

system management tool providing visibility, analysis, and active monitoring of your RDBMS database and other critical information assets in your organization. Instead of attempting to manually monitor your OpenEdge environment, OpenEdge Management allows you to automate database administration activity at the task level by customizing templates and configuring alerts, rules and notifications to monitor performance thresholds and identify bottlenecks before they become system-critical issues.

Closing out the stable of disaster recovery products for OpenEdge is Replication, a tool that automates failover of your company's primary database to one or more remote, hot-standby destinations. With Replication Plus, live users can be offloaded onto standby database servers for read-only reporting, thereby bolstering business operations at all times.

## Streamline Product Experience: Progress Application Server

The Progress Application Server (PAS) for OpenEdge is a nextgen, highly scalable application server that seamlessly integrates core systems and external applications, and helps bridge the gap between yesterday's mission-critical applications and the innovative technology needs of today. By utilizing significantly fewer system resources through a simplified architecture, the Progress Application Server eases administration, scalability, migration and deployment efforts for your system and modernizes your OpenEdge-based product experience.

Shop Floor Data Collection 2.0, an Aptean Discrete Manufacturing Solutions add-on module designed to help you automate your shop floor activity, is built using the Progress PAS technology. Ultimately, the PAS offers you an enterprise-class application server (using the industry-standard Apache Tomcat system), installed, configured and monitored as a Web server that simplifies the task of creating, deploying and operating business applications.

## Secure Your Data: OpenEdge Transparent Data Encryption

The loss or exposure of business-critical data, especially in a highly regulated industry, can lead to tremendous financial losses, legal penalties, and even a tarnished customer reputation if not encrypted properly. In order to actively monitor and specifically protect your on-disk data (data-at-rest), Progress Software offers the OpenEdge Transparent Data Encryption solution, utilizing the most advanced encryption methods currently available to secure your database.

By employing standard encryption libraries and best-practice encryption key management to provide transparent encryption of information, the TDE technology protects OpenEdge data at the table and index level, so you can protect one, some, or all tables— without needing to encrypt your entire database.

With the Transparent Data Encryption module, data or index blocks written to disk, operating system (OS) copies of the database, encrypted backups, and binary dumps are all fully protected, without requiring any application changes, to help provide privacy for sensitive data stored within Encompix.

## Progress Developer Studio and OpenEdge Studio

In the current competitive software market, it is more imperative than ever to ensure your development team employs and utilizes an exceptional, fully-fledged software development platform. By choosing the proper software development tools for your development staff, you can optimize developer productivity, reduce time to market, and ensure application success.

Progress Developer Studio is the most diversified and comprehensive Eclipse-based integrated development environment (IDE) on the market for building and managing high performance, service-oriented business applications.

As the flagship development tool from Progress, Developer Studio enables your R&D team to quickly build application logic, manage application data sources, and seamlessly test and deploy code through tools such as AppBuilder, Application Compiler, and additional OpenEdge-specific plugins including

ABL debugger, Visual Designer (an essential tool for working with OpenEdge GUI for .NET) and AppBuilder perspective (embeds most standalone AppBuilder functionality to help developers migrate traditional ABL GUI applications to a modern UI).

Progress OpenEdge Studio is also an Eclipse-based IDE, designed to enhance the productivity of OpenEdge developers building business logic and applications, but is a scaled down version of Progress Developer Studio that does not include the OpenEdgespecific plugins that come standard with Progress Developer Studio.

The cornerstone of Progress development technology is the Advanced Business Language, a unique, powerful programming language that leverages object-oriented programming by combining it with procedural programming constructs.

## Learn More

To learn more, contact your Account Manager or email us at [info@aptean.com](mailto:info@aptean.com).



Aptean provides very specific industries with very specific ERP, supply chain management, and customer experience solutions. In today's fast-paced, highly competitive economy, organizations don't have time to waste forcing homegrown software, spreadsheets, and one-size-fits-all solutions to do things they were never designed to do. Aptean is on a mission to end those workarounds – with industry-specific solutions instead of generic software, expert support instead of making you go it alone, and a steady influx of new ideas instead of the status quo. For more information, visit [www.aptean.com](http://www.aptean.com).