Meets Your Needs Today and Tomorrow

Modern app development strategy
Mobile development
Web solutions to Fuel Next-Gen Applications
New cloud business models
Agility to manage changing business rules and requirements

App modernization methodology and support Services
Modern mobile solutions via Telenik
Web solutions via WebSpeed and the Pacific App Server for OpenEdge, and other open web standards
SaaS enablement, multi-tenant database and SPLA
BPM and Corticon Rules, for fast and codeless process and rules updates apart from business logic

Progress Software
Anthony Cross, Laurent Kieffer
February 2016
Modernization and Digital Transformation Projects

Gartner Report:
2016 TOP FIVE IT PRIORITIES

- Extending Applications: 41%
- App Mod of Ent Apps: 46%
- Other: 13%

Modernization and Digital Transformation Projects Are Behind Growth in Enterprise Application Software Market, August 2015

87% application modernization and/or extending application capabilities
Overview of OpenEdge 11.6 Enhancements

- Platforms and Installation
- WebSpeed support in Pacific Application Server for OpenEdge
- Server Technology
- Progress Developer Studio for OpenEdge
- OpenEdge ABL
- OpenEdge Business Process Management
- OpenEdge DataServers
- OpenEdge Management and OpenEdge Explorer
- OpenEdge Database
- OpenEdge SQL
- OpenEdge Mobile

Documentation:

*OpenEdge® Getting Started: New and Revised Features*
Custom Installs
OpenEdge 11.6 – Custom Installs

• Build customized install images for individual deployments

• Reduce the footprint and increase deployment efficiency

• Decrease install process costs
Platforms and Installation

- **Platforms**
  - Power HA 7.1 certification
  - Java8 Runtime certifications
  - HP Helion cloud certification for CentOS 6.5 and Windows 2012 R2 64-bit

- **Installation**
  - OpenEdge custom installation bundle utility
  - PDSOE
    - Telerik controls 11.5.1 rolled up
    - Infragistics controls are upgraded to version 14.2.20142.2092
    - Infragistics NetAdvantage for .NET v2014 Vol 2 CLR 4.0
  - OEBPM
    - JBoss EAP Configuration files

- **Service Pack fix**

**Documentation:**
- *OpenEdge® Getting Started: New and Revised Features*
- *OpenEdge® Getting Started: Installation and Configuration*

**Online:**
- *Install help*
Why upgrading to 11.6 can be easier…

- Less overhead for client installs
- Better customization capabilities
WebSpeed support in Pacific Application Server for OpenEdge

- Migrating classic WebSpeed
- Developing WebSpeed Applications in PDSOE
  - Using PDSOE to develop new application
- Security for WebSpeed Applications
  - Securing a migrated classic WebSpeed Application
  - Options for securing WebSpeed Applications

Documentation:
- Pacific Application Server for OpenEdge: Introducing PAS for OpenEdge
- Pacific Application Server for OpenEdge: Application Migration and Development
- Guide
- Pacific Application Server for OpenEdge: Administration Guide
- OpenEdge Management: Pacific Application Server for OpenEdge Configuration
Strengthened Security
OpenEdge 11.6 – Security

• Enhanced Progress OpenEdge application protection with comprehensive support of the latest TLS/SSL security technology

• Minimize risks from malicious attacks that can cause irreparable damage to your business

• Supports the most modern SSL standards (TLS1.2 with fail-back to TLS1.1, TLS1.0 and SSLv3) - SHA 256
Server Technology

- **SSL security updates** —
  - OpenSSL Library is upgraded to 1.0.1m
  - OpenEdge supports TLSv1.1 and TLSv1.2 protocols
  - OpenEdge supports digital certificate validation whose signatures use SHA2 (256 or 512) message digest algorithms

- **Application Server Refresh**
  - Reload r-code
  - Trim file system allocation
  - Recover process memory

Documentation:
- OpenEdge Application Server: Administration
- OpenEdge Development: Messaging and ESB
- OpenEdge Getting Started: Core Business Services - Security and Auditing
Why should you upgrade for Security?

- **Production ready -** Tested using security audit tool
- **Spring Security integration with ABL sessions**
- **Security updates via Java & Tomcat distributions** – Out of the box standards
Progress Developer Studio for OpenEdge

- OpenEdge Data Object changes
  - The Mobile OpenEdge project type is replaced with two new OpenEdge project types:
    - Data Object
    - ABL Web App
- Changes to OpenEdge project type
  - WebSpeed (WebHandler)
  - REST (Mapped RPC)
  - Data Object (Annotated RPC)
- Profiler Editor
- References Update to Telerik assemblies
- Assert API in ABLUnit
Advanced Business Language (ABL)

- Enumerated types (video) Using enums
- Reflection (video) Using Progress ABL Reflection
- New attributes and startup parameters for parsing XML
- Serializing classes to binary and JSON formats
- Single-line comments
- Additional information from XREF and XREF-XML options of COMPILE
- RadForm subclasses in GUI for .NET
- Support for Newer ICU Collations

Documentation

• OpenEdge® Development: ABL Reference
• OpenEdge® Development Internationalizing Applications
  - Support for newer ICU collations
OpenEdge DataServers

- SSL Support
- Support for DataServer in PAS for OpenEdge environment
- ROWID area restructuring
- New wire-protocol driver support

Documentation:
- *OpenEdge® Getting Started: Core Business Services - Security and Auditing - SSL Security*
- *Data Management: DataServer for Microsoft SQL Server*
- *Data Management: DataServer for Oracle*
OpenEdge Management and OpenEdge Explorer

- User Interface enhancements
- Graph enhancements (OpenEdge Management only)
- Alerts enhancements (OpenEdge Management only)
- Database enhancements
- Security enhancements
- Pacific Application Server enhancements

Documentation:
- OpenEdge Management and OpenEdge Explorer: Getting Started
- OpenEdge Management: Pacific Application Server for OpenEdge Configuration
- OpenEdge Management: Database Management
- OpenEdge Management: Resource Monitoring
- OpenEdge Management: Alerts Guide and Reference
OpenEdge Database

- Restart a Replication Agent without Restarting the Target Database
- Replication information in Virtual System Tables (VSTs)
- PROUTIL PARTITIONMANAGE Copy Qualifier
- LOBs data Included in Database Analysis Commands
- Message Buffer Size Startup Parameter (-Mm) Enhanced
- Enhancements to the dbman Command

Documentation:
- *OpenEdge Data Management: Database Administration*
- *OpenEdge Replication: User Guide*
- Online Help
- *Database Administration Utilities*
SQL Enhancements
OpenEdge 11.6 – SQL Enhancements

- Continued commitment to extensive SQL enhancements in Progress OpenEdge 11
- Additional capabilities support OpenEdge Analytics360 and complex SQL statements
- SQL Standards Enhancements
OpenEdge SQL

- OpenEdge SQL enhancements
- Authorized data truncation (new in 11.5.1 release)
- Autonomous schema update
- Support for newer ICU collations

Documentation:
- *OpenEdge Data Management: SQL Development*
- *OpenEdge Data Management: SQL Reference*
- *OpenEdge Development: Internationalizing Applications*
Why upgrading to 11.6 for SQL is important

- Performance Improvements
- More Standard SQL statements
- Applications or Analytics that need to access the OpenEdge Database
OpenEdge Mobile

- Submit operation
- `getErrors()` API
- CRUD Sample
- Progress Data Service Template in the Telerik platform
- Push Notifications

Web:
- Cloud Data Object open source project on GitHub:
  - [http://clouddataobject.github.io/](http://clouddataobject.github.io/)
- Progress Data Objects Guide and Reference:
  - [https://documentation.progress.com/output/pdo/](https://documentation.progress.com/output/pdo/)
- Documentation:
  - OpenEdge Development: Web Services
  - Online
  - Progress Developer Studio for OpenEdge
OpenEdge 11.6
Telerik UI for WinForms

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- OpenEdge Product: GUI for .NET
- Telerik Product: UI for WinForms
- Demo – Showcasing the Telerik UI for WinForms
- Progress Developer Studio Visual Designer
What is the OpenEdge GUI for .NET?

- Modern UI for OpenEdge applications using Microsoft WinForms
  - Desktop enterprise business applications
  - Microsoft and third-party control providers results in hundreds of UI components
    - Data-centric UI controls
    - ADO.NET maps well to OpenEdge ProDataSet™
  - Visual Designer in Progress Developer Studio for OpenEdge
  - WAIT-FOR event model for .NET forms

- More than just GUI – supports “most” .NET classes
  - Expands your ABL program with .NET libraries
  - Object-oriented programming directly in ABL
Sample Transformation – Side-by-side