Leverage the Power of Progress Developer Studio for OpenEdge

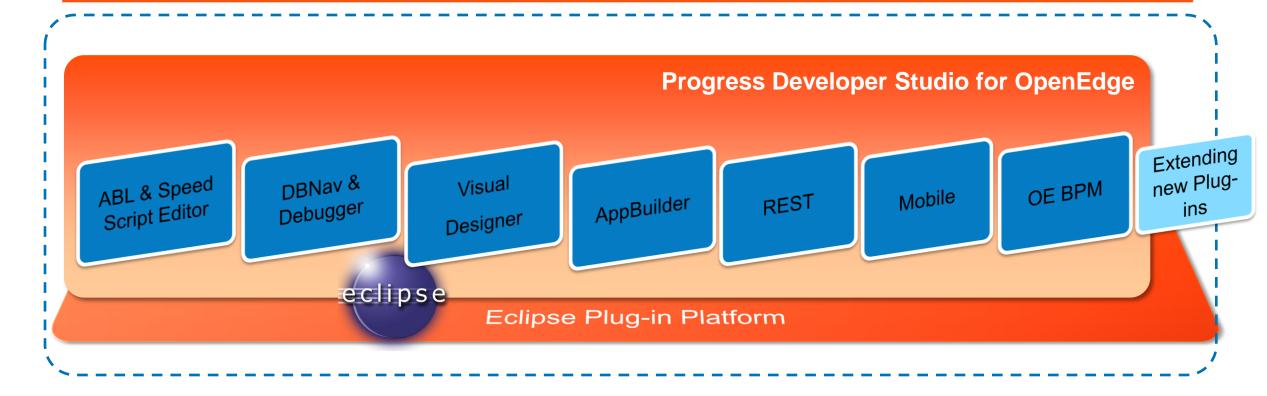
Srinivas Kantipudi Sr Manager 8th Oct, 2013 Swathi Yellavaram Principal Engineer



Agenda

- Brief Introduction to Eclipse and PDS for OpenEdge
- Different Development Environments in PDS OE
- Improving Progress OpenEdge Developer Productivity
- Demo

Introduction to Eclipse and PDS OE



- Eclipse based IDE
- Highly customizable and easily navigable user interface
- Extensive plug-ins available for extending the functionality

Development Lifecycle

Define/Configure Develop Publish Test

Project types, Preferences, Properties

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Servers, Remote Publish

Debugger

Project Types

- OpenEdge Project is facet based
 - Specific project type for each development domain
 - Ability to create custom project types
 - Advantages
 - Provides better visibility and organization of code
 - Tailored functionality based on the project type

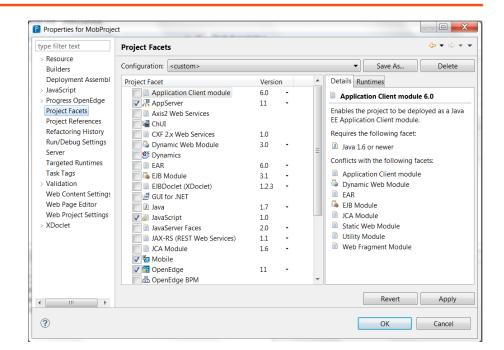
Different Project Types

10.2B

AppServer

11.0

- WebSpeed
- GUI for .NET
- Dynamics
- Static web
- ChUI

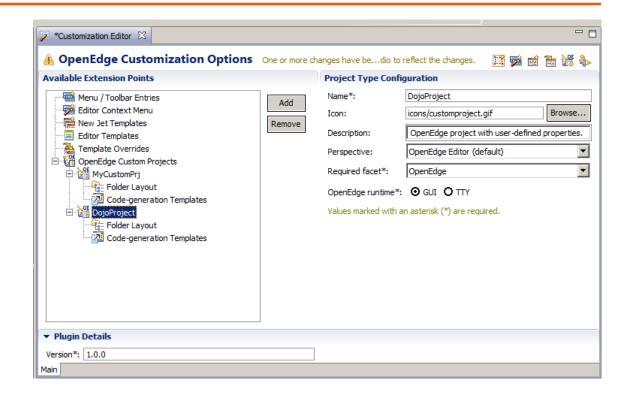


11.2

- REST
- Mobile

Custom Project Types

- Done using Customization editor
 - Tree node named OpenEdge Custom Projects
- A custom project type's details are stored in the extensibility user plug-in
 - Share by making this plug-in available in other Eclipse environments



Configuring Your Projects and Workspace

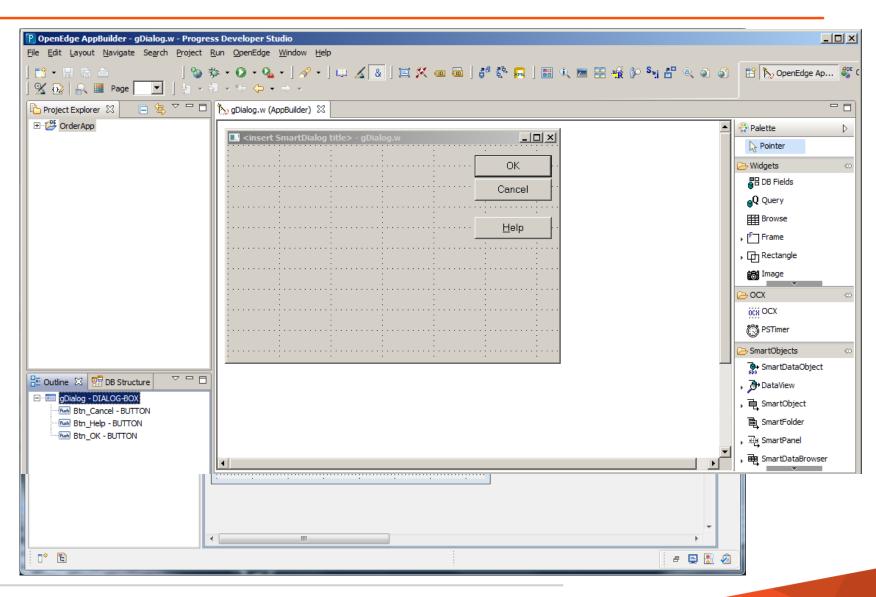
Shared AVM Project AVM 1 Project AVM 2 Project Project Project C Project D В **Project properties Properties** Propath **Properties** Propath **PROPATH Build destination Build destination**

Development Lifecycle

Define/Configure Project types, Preferences, Properties AppBuilder, GUI for .NET, Web, REST, Mobile, OE Develop BPM, OE-Corticon, Advanced Editing capabilities Publish Servers, Remote Publish Test Debugger

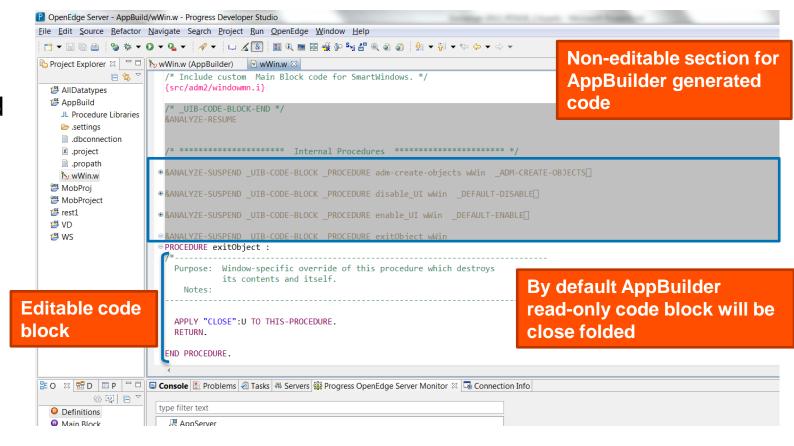
AppBuilder Integration

- Brings native
 AppBuilder
 functionality to
 PDS OE
- Dock-able widget palette inherits look and feel of GUI for .NET Designer
- Hierarchical widget outline view
- Synchronization between design and source editor



Improved ABL Source Editor

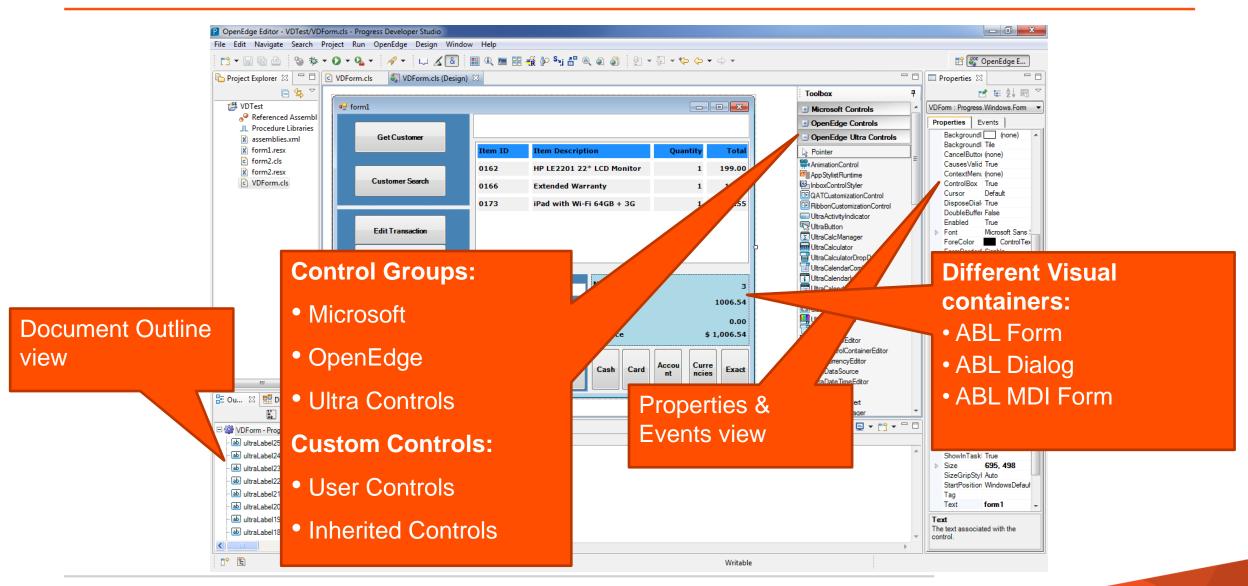
- Ease of editing AppBuilder generated source file
- Protects AppBuilder generated code
- AppBuilder Editor preference options are provided to turn on/off this feature
- Code folding for AppBuilder specific blocks
- Customized Find and Replace dialog



Progress OpenEdge GUI for .NET

- A Microsoft[®] .NET based Windows graphical user interface
 - Sleek, Competitive UI in ABL
 - .NET object features (methods, properties, events)
- Leverages what you know
 - ABL (events, business logic, data constructs)
- Wealth of .NET controls available
 - OpenEdge Ultra Controls for .NET (Infragistics™ NetAdvantage)
 - Microsoft[®] controls
 - Third party controls
 - Component One, DevExpress, Telerik, ...

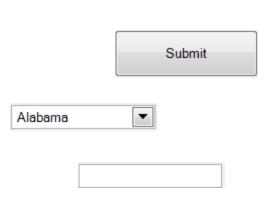
Visual Designer Perspective for GUI for .NET



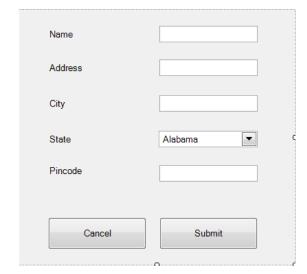
Reusable Custom controls

- Two different types
 - User controls
 - A collection of controls
 - Inherited controls
 - Control derived from another control

Individual Controls



User Address Control



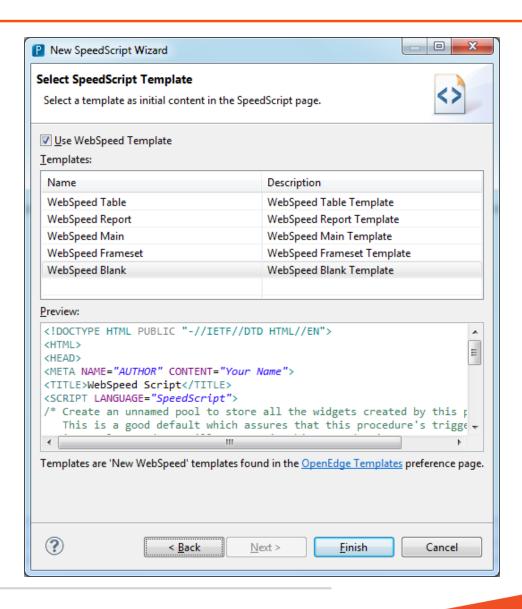
Inherited Button Control



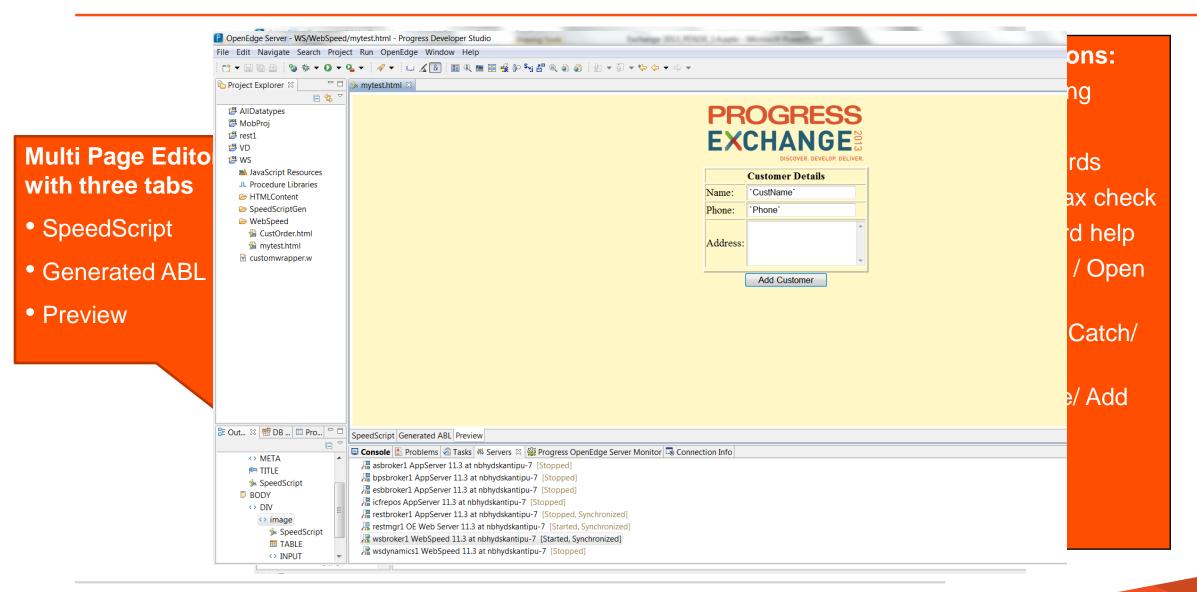


WebSpeed Development

- Completely revamped in 11.0
 - Initial support was through WebSpeed workshop
 - All capabilities bought into PDS OE
- New WebSpeed project type
 - Ability to configure the project with WebServer and WebSpeed broker
- Different templates provided for SpeedScript
- Multi-tabbed SpeedScript Editor
 - SpeedScript, Generated ABL, Preview
 - Support for editor actions in SpeedScript editor



SpeedScript Editor

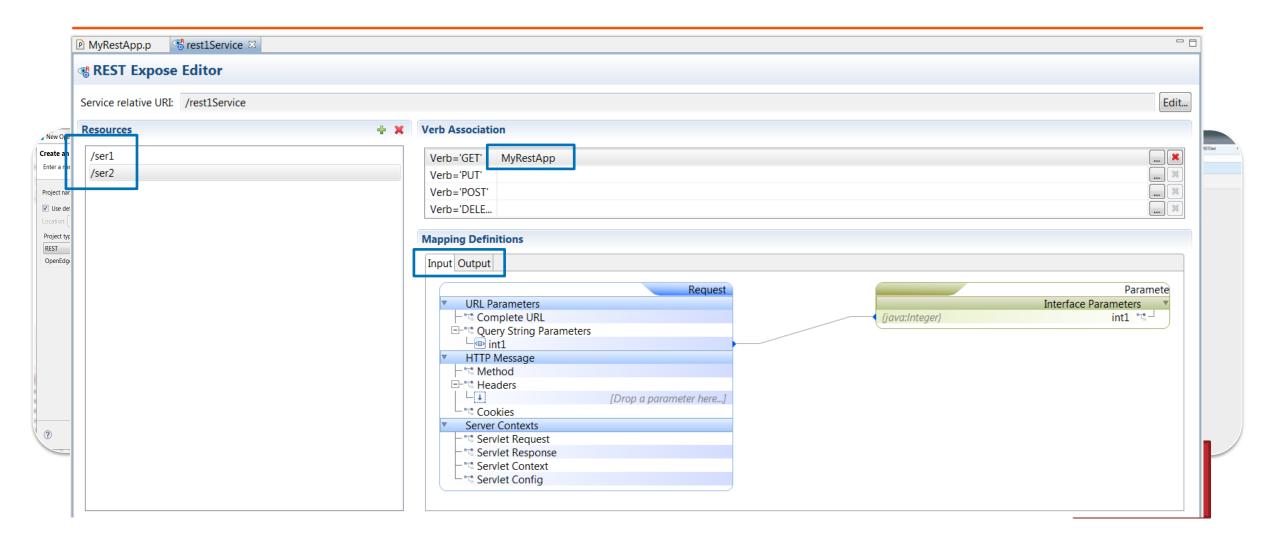


REST

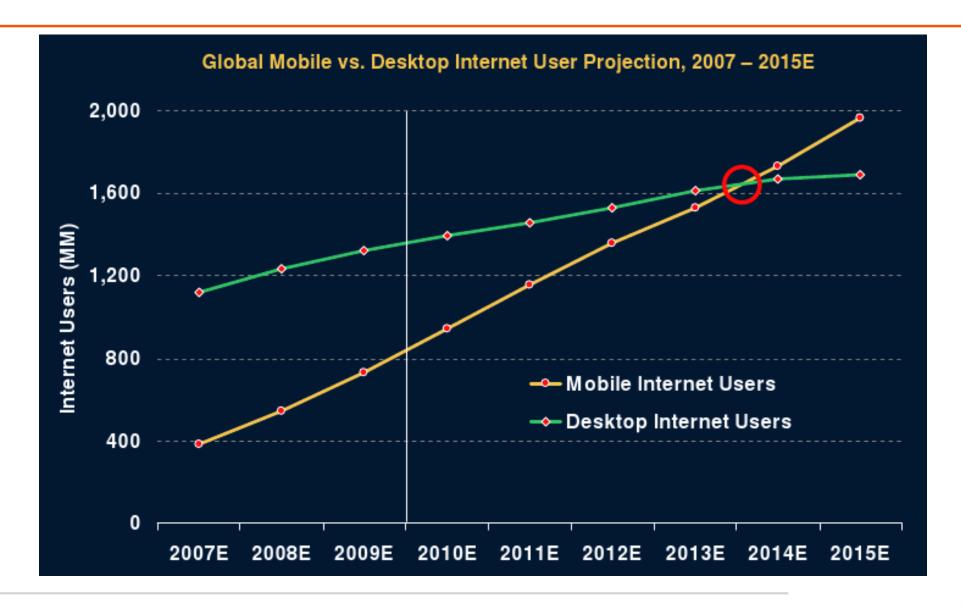
- Resource based, light weight, stateless
- Can use JSON or XML
- CRUD Model
 - Create, Read, Update and Delete
- When to use REST
 - Cloud-based and mobile applications
 - Highly scalable stateless applications

OE Mobile uses REST as its protocol

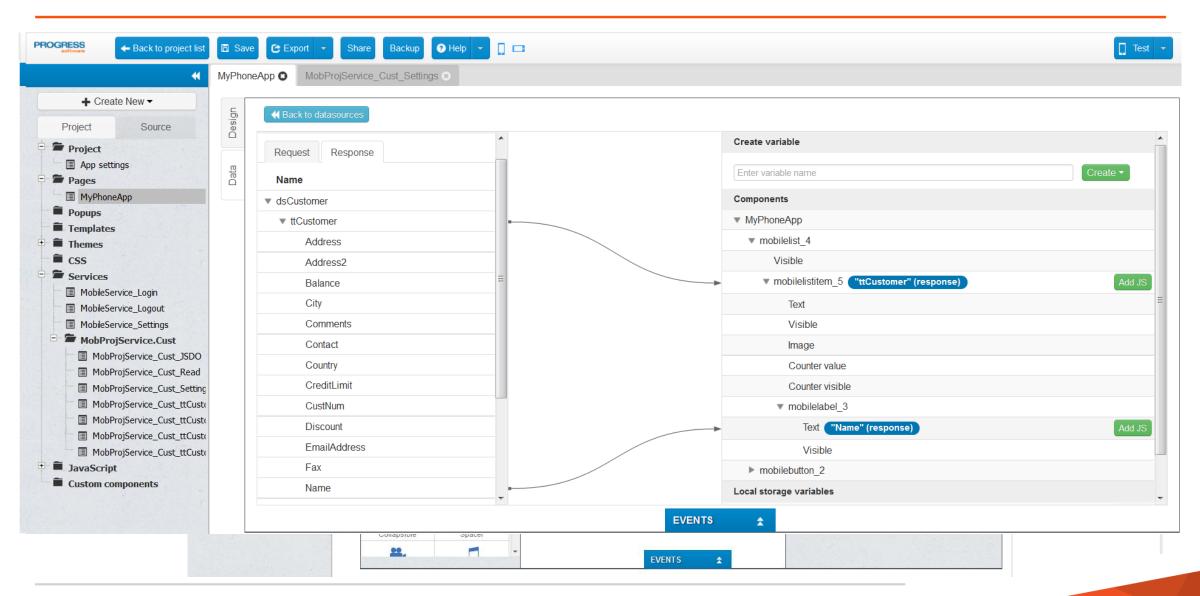
REST Application Flow



Growth of Mobile Devices

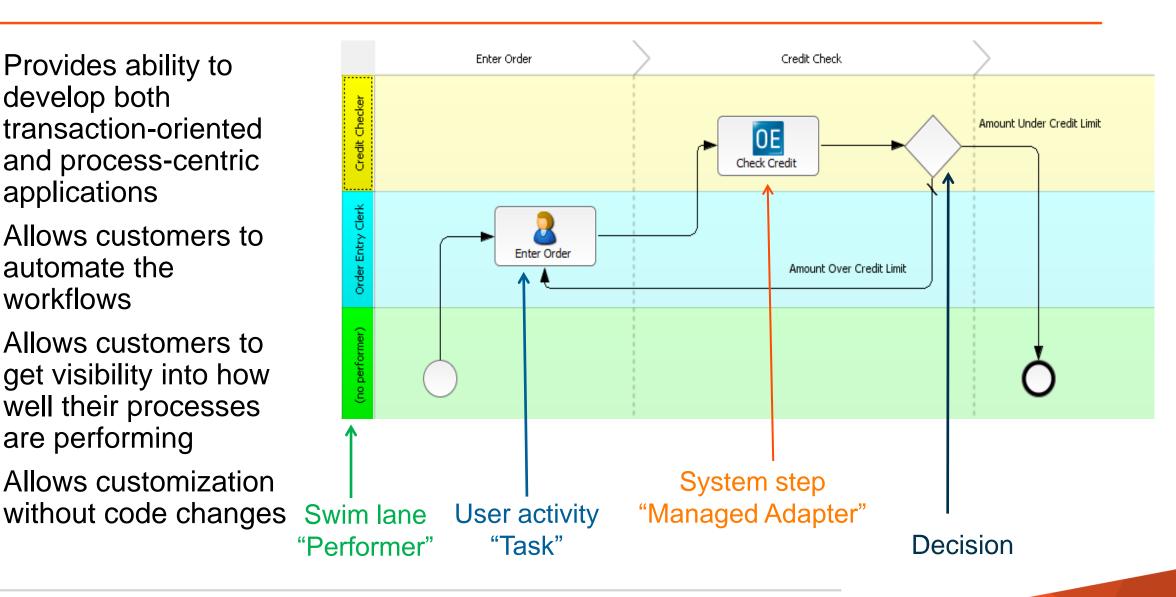


Mobile Application Flow

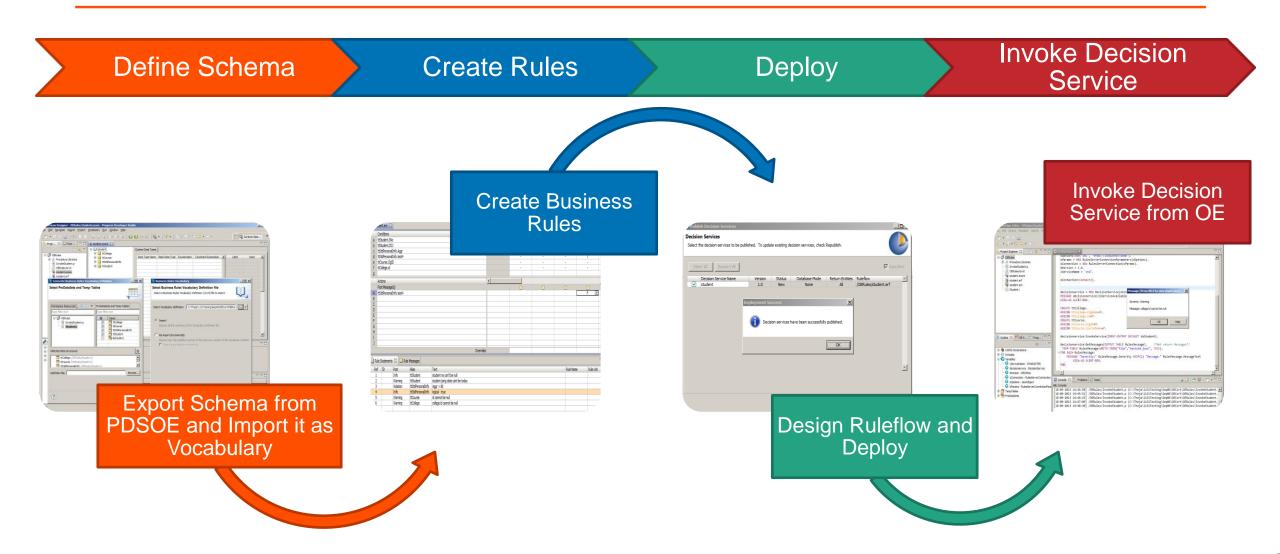


Progress OpenEdge BPM

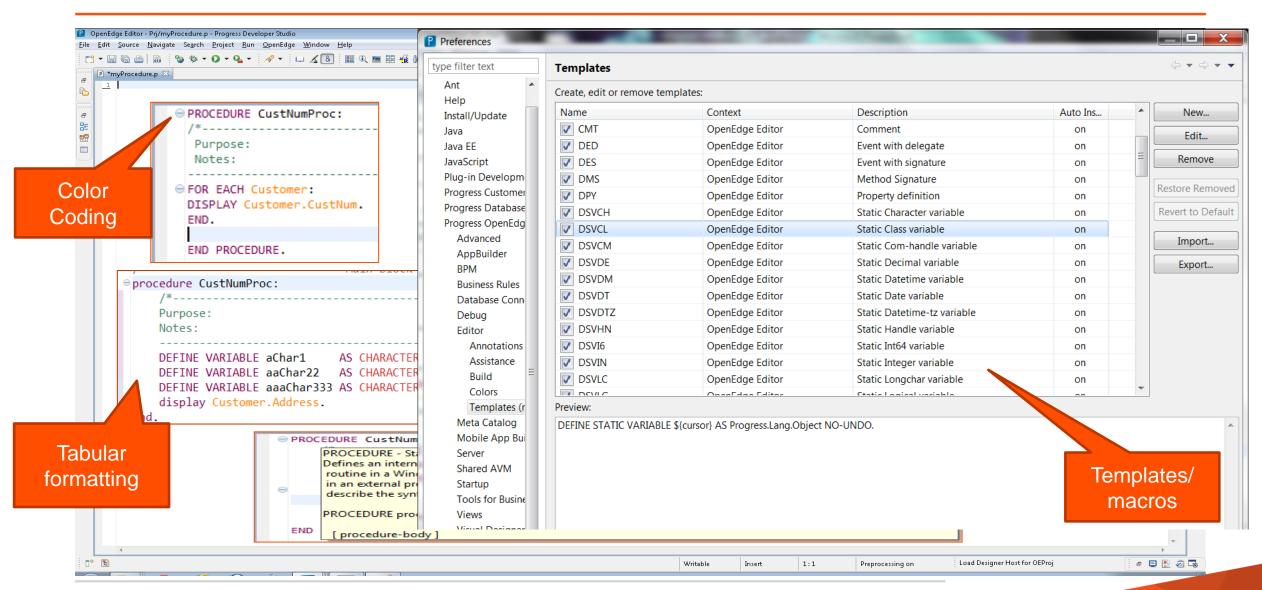
- Provides ability to develop both transaction-oriented and process-centric applications
- Allows customers to automate the workflows
- Allows customers to get visibility into how well their processes are performing
- Allows customization



Progress OpenEdge – Corticon



Advanced Editing Cpabilities



Development Lifecycle

Define/Configure Project types, Preferences, Properties AppBuilder, GUI for .NET, Web, REST, Mobile, OE Develop BPM, OE-Corticon, Advanced Editing capabilities Servers, Remote Publish **Publish** Test Debugger

Servers in PDSOE

- Three types of Servers
 - AppServer, Web Server, WebSpeed
- Servers can be stopped and started from Servers view in PDSOE

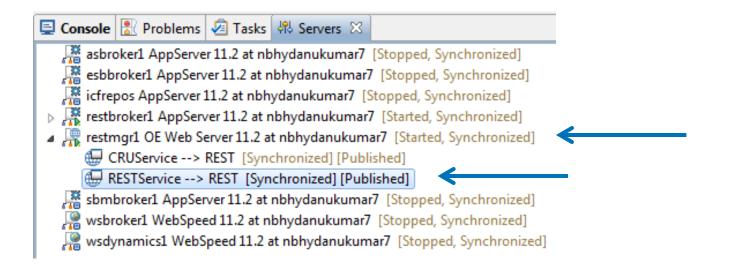


- Server Editor to modify Server properties
 - Connection information, timeouts, publish location

Publish

- Configure resources to be published
- Associate module/project to the Server
- Configure Publish settings
- Publish options
 - Publish
 - Clean



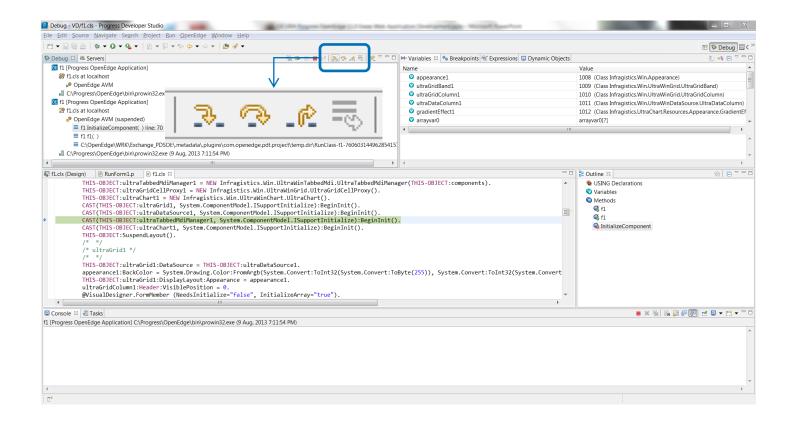


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Debugger

- Support for both Local and Remote Debugger
- Operates on compiled r-code
- Can attach to an external AVM





PROGRESS