Rollbase for OpenEdge Dudes

Daniel Figucio, Systems Engineer Susan Houniet, Systems Engineer



Your Feedback Matters

Best Tweets

2 Winners get a GoPro Hero 4 Camera worth USD 399 each!

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Take 10 Surveys

2 Winners get a Microsoft Band worth USD 199 each!

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Topics Covered in This Session

- What is Progress Pacific
- What is Progress Rollbase
- Rapid App Dev (RAD) in Rollbase
- How to use Progress OpenEdge with Rollbase
- How to get more information



What Is Progress Pacific?



What Is Progress Pacific?

From the beginning, Progress has helped business professionals build powerful applications with purpose

Business professionals have unique requirements:

- 1. Need simplicity without having to rely on deep technical skills
- 2. Need to connect to critical data
- 3. Need to see before they build
- 4. Need to show results right away
- 5. And they need to do it without a long, expensive IT project

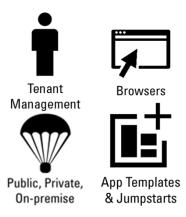






*PROGRESS Pacific

PROGRESS ROLLBASE



PROGRESS DATADIRECT



PROGRESS EASYL





CONSISTENT USER EXPERIENCE



*PROGRESS Pacific

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Social Media Integration

NoSQL On-premise Integration Integration

SaaS Integration

Big Data Support

BIG DATA

PROGRESS CORTICON



Business Rules

PROGRESS EASYL





PROGRESS ROLLBASE











Browsers

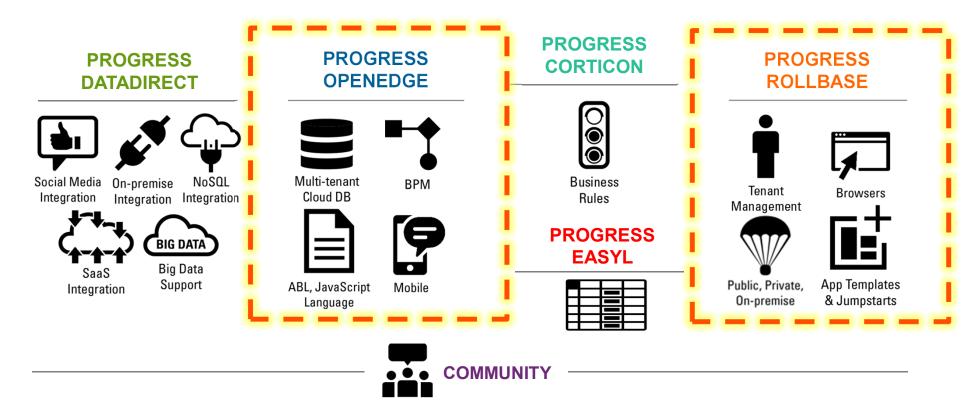


App Templates & Jumpstarts

CONSISTENT USER EXPERIENCE



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CONSISTENT USER EXPERIENCE



Progress and Rollbase Recognized

Progress in Magic Quadrant for Enterprise application Platform as a Service (aPaaS).

Magic Quadrant

Figure 1. Magic Quadrant for Enterprise Application Platform as a Service



Rollbase, Inc. ...has been named a Gartner Research "Cool Vendor in PaaS" for 2013.



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Magic Quadrant

Figure 1. Magic Quadrant for Enterprise Application Platform as a Service, Worldwide





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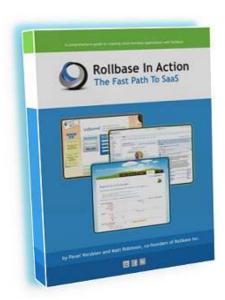
Progress Rollbase – Rapid App Development for Two Personas

Business Users can...

- Build powerful data-driven apps without coding
- Build integrations b/w Rollbase apps without coding
- Work with developers to ensure the right solution is built

Developers can go much further with...

- JavaScript on client-side and server-side (Rhino)
- Custom JSPs and Java-based business logic
- Rollbase APIs: REST, SOAP, AJAX, SQL, JDBC, D2C
- Integrate with OpenEdge Business Logic and DB
- Integrate 3rd party libraries and products





What Is Progress Rollbase?



What Is ** PROGRESS* Rollbase?

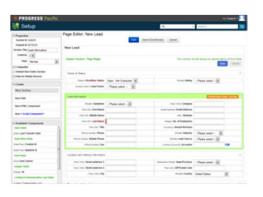
Progress Rollbase is a cloud platform for development and delivery of software as a service (SaaS) business applications using point & click, drag & drop tools in a standard web browser with a minimal amount of code.

Rollbase continues to extend Progress' commitment to empowering business users and other people who are not professional programmers to enable them create their own applications.

Rollbase: Build Data-driven Applications on Any Cloud for Any Device



- Drag & drop development enables business users to create apps without coding
- Developers can go much further with JavaScript, APIs and custom components



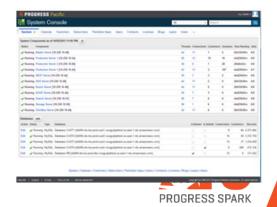


- Publish and deploy applications to one or more tenants
- Choose your hosting environment public, hybrid or private cloud





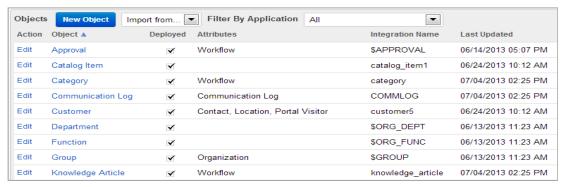
- Central dashboard to manage servers, databases, tenants, users, applications and more
- Monitor system components and user activity, access tenants to provide support, resource metering, etc.

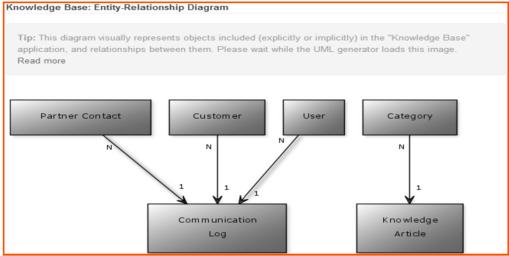


Progress Rollbase in Action



Core Concepts: Objects, Fields, Relationships and Cardinalities

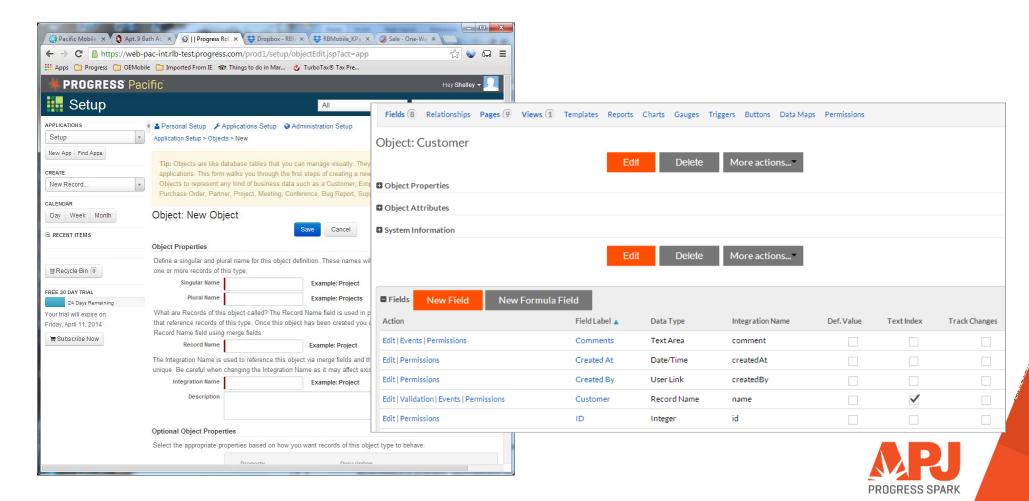




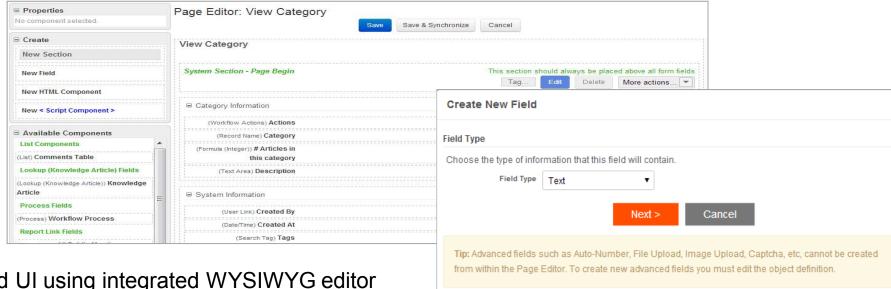
- Applications are data-driven –
 Objects are the core business entities
- Objects have properties and attributes associated with them
- Objects have Fields associated with them
- Object relationships and cardinalities are modeled visually
- Underlying database physics are completely hidden – it's aPaaS!



Create Object



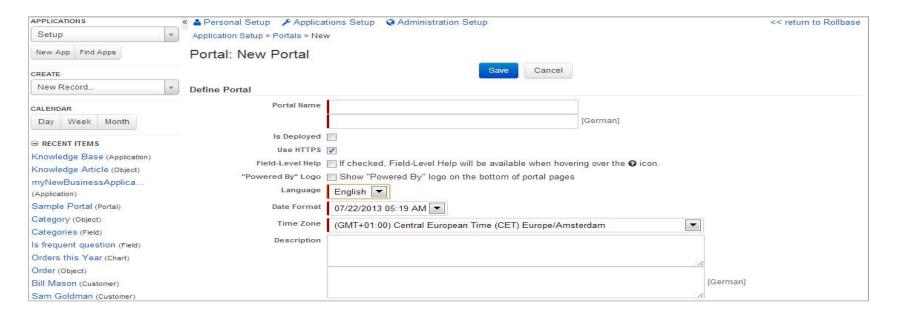
Building the User Interface (UI)



- Build UI using integrated WYSIWYG editor
- UI Tabs are automatically generated for each Object
- Page elements are created and edited using drag-and-drop
- Changes immediately reflected in the UI



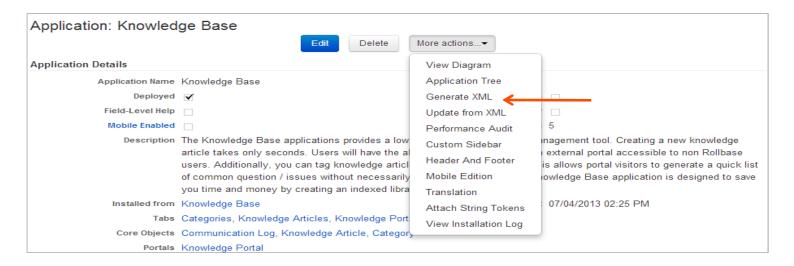
Publishing Applications



- Applications can be published and accessible via a user-facing Portal
- Several portals can be defined per application
- Fine-grained (user/role) authentication and access control fully configurable



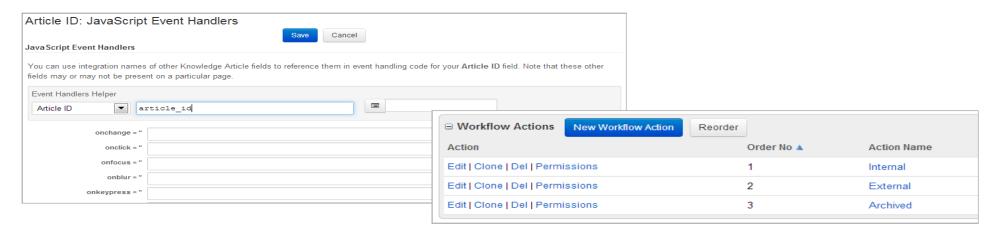
Installing and Updating Applications



- Application composition is described in an XML document (Application tree)
- Install and upgrade Applications by installing the provided XML
- Supports fine-grained control for sub-components (Locked, Partially Locked, Unlocked)
- Applications are versioned and can be rolled back if necessary



Advanced Topics



- Powerful AJAX API for Applications demanding a rich, interactive browser experience
- On-premise Rollbase supports the integration of external databases (e.g. OpenEdge DB)
- Rollbase has powerful facilities:
 - Triggers
 - Workflow
 - Server-side JavaScript logic



Progress Rollbase Applications



























































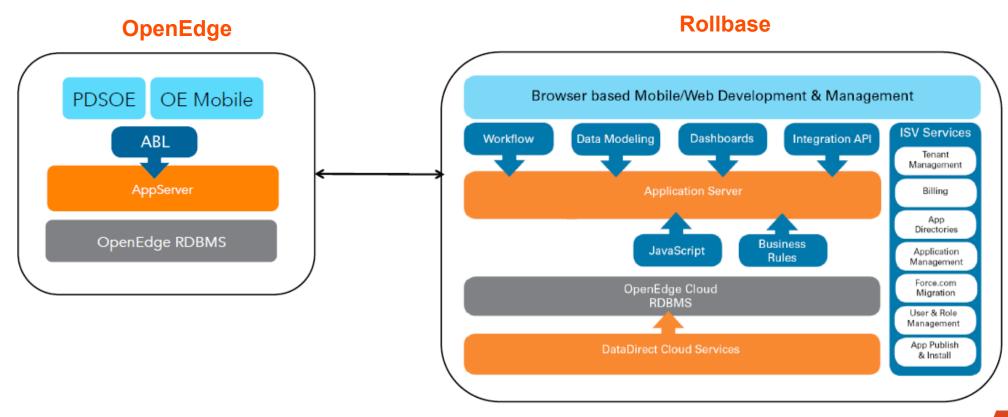
Over 10,000 users in 10 languages



Progress Rollbase with OpenEdge



Extending OpenEdge Applications by Adding Web Components





When to Integrate OpenEdge and Rollbase

- New Application as an existing OE Application
- New Module to extend an existing OE Application
- New Module to replace part of an existing OE Application

Need to THINK in terms of How the Applications are being used and the business purpose (Record – Engagement – Differentiation)



How to Integrate Rollbase and OpenEdge: 6 Options

- OpenEdge Service Objects
- 2. Progress DataDirect Cloud
- 3. External Tables

- 4. External tables with auxiliary databases
- 5. Web Services / SOAP
- 6. Java Open Client



But What If I Don't Use an AppServer? Preferred Approach Is External Tables + OpenEdge RDBMS

Requirements

- OpenEdge RDBMS
- Private Rollbase

Steps

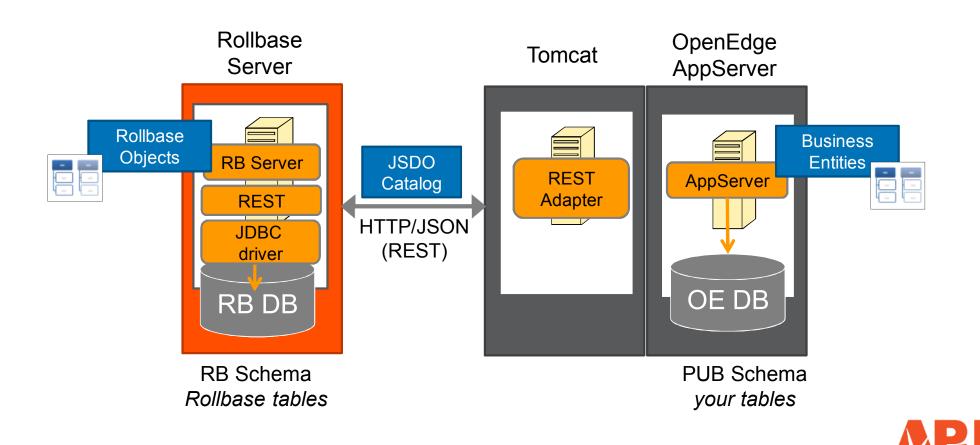
- Add the Rollbase schema to an existing OpenEdge RDBMS
- Modify Rollbase to use the existing OE DB with new schema
- Create a new object using External tables

Result

Access to your data



Option 1: OpenEdge Service Objects – The Preferred Approach



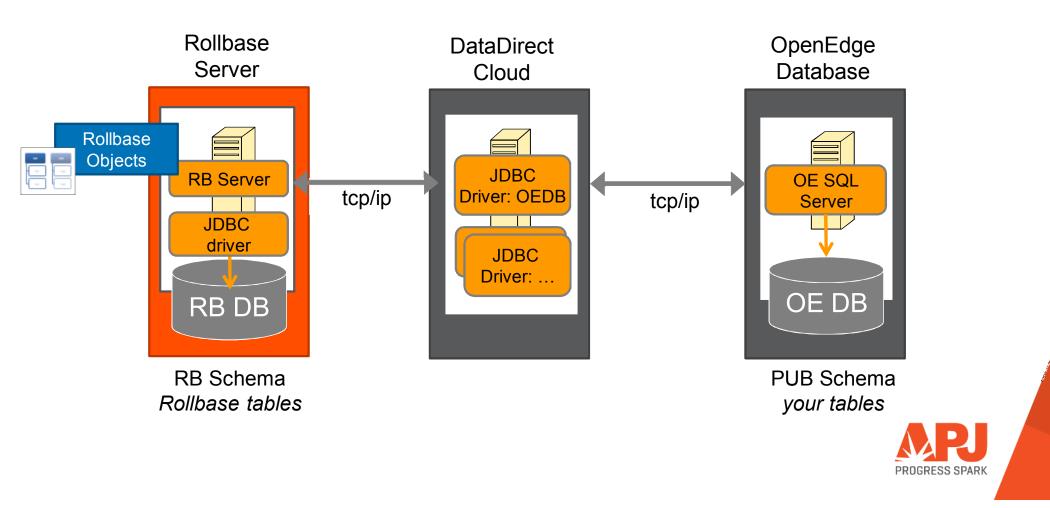
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Option 1: OpenEdge Service Objects: The "Preferred" Approach

- Rollbase Business Entities (i.e. Objects) based on OpenEdge "Business Entities"
 - ✓ OERA-certified
 - ✓ Builds on JavaScript Data Object (JSDO) Catalog in OpenEdge Mobile
 - First priority for Rollbase work: "Parity with native objects"
- Phased implementation current functionality:
 - Tenant-based identity
 - Single Table ProDataSet
 - Direct CRUD support INVOKE done in ObjectScript
- Limitations:
 - Requires AppServer and REST Adapter



Option 2: DataDirect Cloud + OpenEdge RDBMS



Option 2: DataDirect Cloud + OpenEdge RDBMS

DataDirect Cloud Server runs in Amazon cloud

- ✓ Served by OpenEdge RDBMS
- ✓ Your application's data are on your server.
- ✓ Enables building new, hosted, customized Web Applications on Partner and DEU platforms
- √ 10.2B onward

Rollbase runs either hosted or on-premise

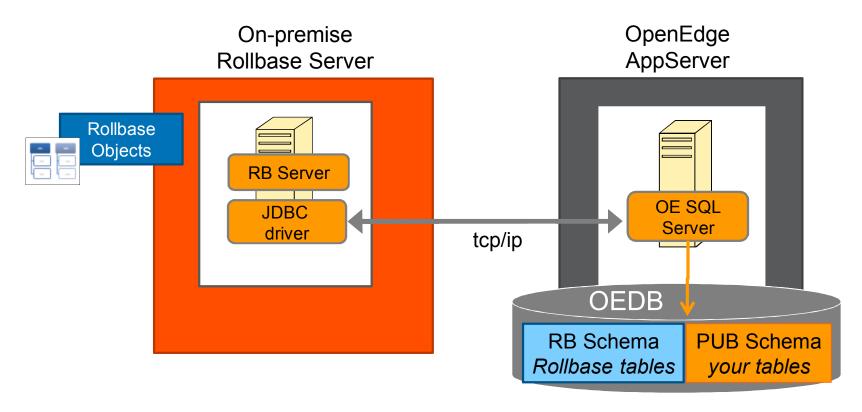
- Rollbase talks to D2C
- D2C talks to your server

Limitations:

- Latency can be high
- Access to Database, not Business Logic
- Requires detailed knowledge of data



Option 3: External Tables in OpenEdge RDBMS



One and only one database



Option 3: "External" Tables – On Premise Only

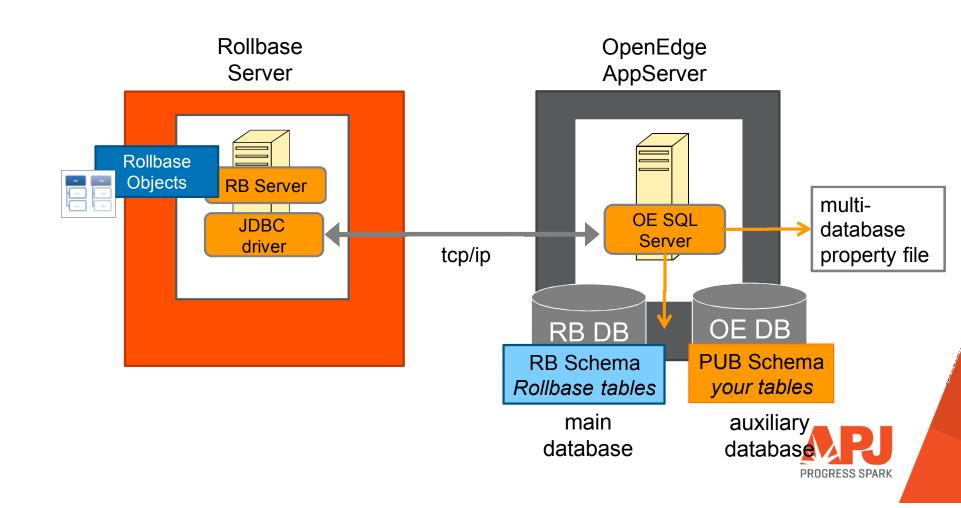
- Rollbase on-premise has a database
 - Rollbase has about 25 tables
 - Tables used by Rollbase are in the RB schema
 - Do not touch these tables
- The "external" tables must be in the SAME database
 - In a different schema, e.g. PUB

Limitations:

- Cannot modify schema in Rollbase
- Requires detailed knowledge of data
- Must be in shared namespace and single database
- Must have a unique numeric column or text column



Option 4: External Tables in External OpenEdge RDBMS

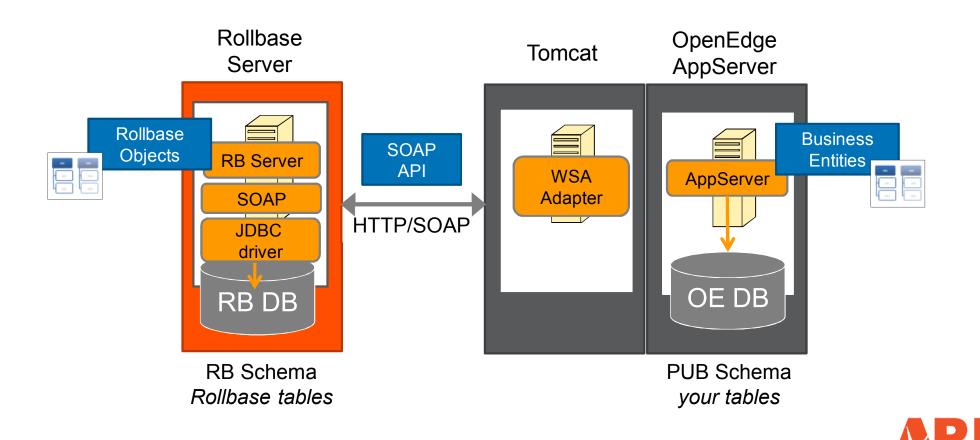


Option 4: External Tables with Auxiliary Databases

- OpenEdge SQL Server process serves data from multiple databases
- Main database is read-write
 - Contains Rollbase tables only
- Auxiliary databases are read-only to Rollbase
 - Auxiliary db contains your application's tables
 - Must be on same system as main database
 - Property file describes auxiliary database and names the tables therein
 - User id for main and auxiliary db must be the same
 - Rollbase thinks there is just one database

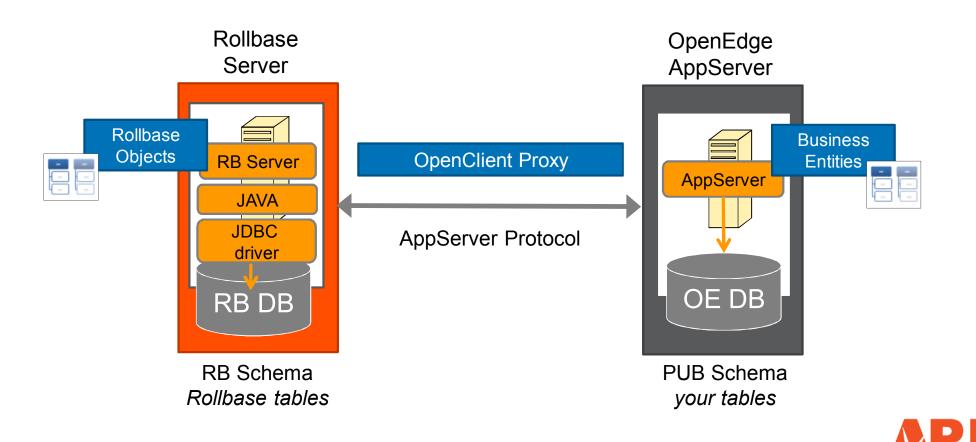


Option 5: Web Services / SOAP



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Option 6: Java Open Client



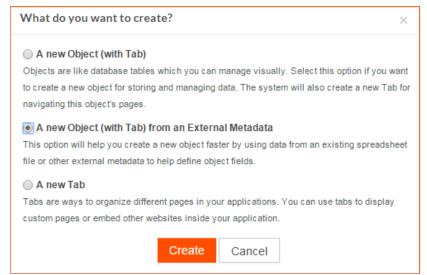
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Demos

OpenEdge Service Objects

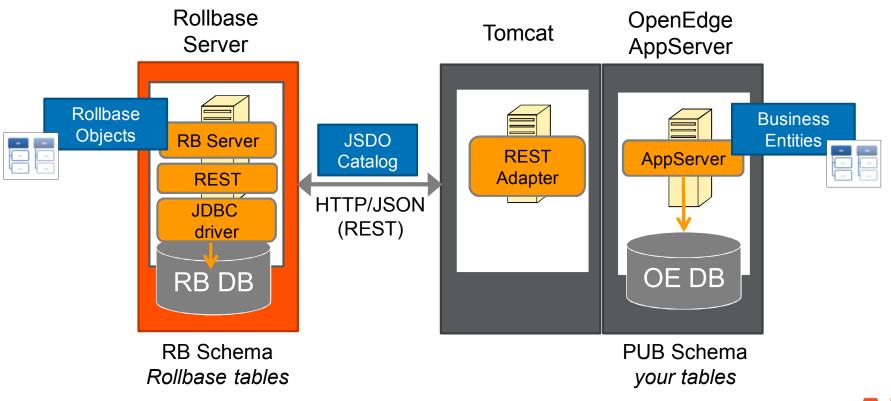
	Туре	Description
0	Progress Rollbase XML File	This option will install application developed in another Customer and serialized as XML file.
	Salesforce.com (Force.com)	This option will import your currently active Salesforce.com application including al of its objects, fields, page layouts and data.
	Convert MS Access Database	MS Access JDBC Driver is not available. Please consult Chapter 18 on how to purchase and install it.
0	OpenEdge Service	Import Objects and Relationships from uploaded OpenEdge JSDO catalog file
0	Mobile Project Backup	This option will create mobile application from a project backup archive (zip artifact

External Tables



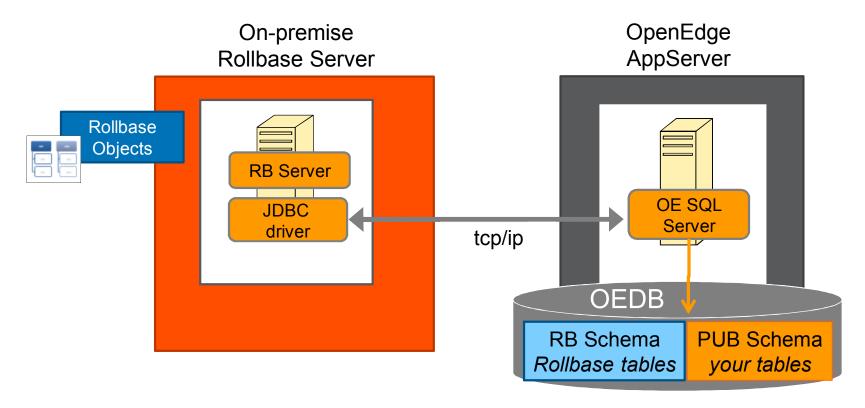


DEMO: OpenEdge Service Objects – The Preferred Approach





DEMO: External Tables + OpenEdge RDBMS



One and only one database



OpenEdge Service Objects – The Preferred Approach

Requirements

- Application Server
- Progress Developer's Studio

Steps

- Create a Mobile Application using the Express Mobile process in PDSOE
- Create a new object in Rollbase using the JSON file from the Express Mobile project

Result

Access to your AppServer logic and data



Documentation References

Topic	Where
Rollbase	Rollbase in Action
OpenEdge Service Objects	Rollbase In Action, Appendix C, Using External Tables as Rollbase Objects
OpenEdge Service Objects	Rollbase In Action, Appendix E, Creating Rollbase Objects From OpenEdge Services
DataDirect Cloud	Rollbase In Action, Using Rollbase With DataDirect Cloud
JSDO	White Paper: Accessing the Progress OpenEdge AppServer from Progress Rollbase using JSDO Code
OpenClient	White Paper: Rollbase access to ABL Business Logic via OpenClient

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In Summary...

Rollbase is:

- A drag & drop, point & click, object based, WYSIWYG, browser based development tool
- That also allows publishing of multi-tenant (through Portals) applications
- Updating of applications, monitoring and metering support
- Cloud hosted or On-Premise

Rollbase can access your OpenEdge Application or Database

- Preferred method is using the OpenEdge Services Object (11.3.2)
- Hosted Rollbase can access OpenEdge DB using DataDirect (10.2B+)
- On-Premise can access the OpenEdge DB directly with External Tables
- And there are more ways...

Help is available

- See the document resources
- We will continue to improve and add functionality



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Questions

Question 1: Is Pacific the Same as Arcade?

Yes or No



Question 1: Is Pacific the Same as Arcade?

No

Arcade is a self-service hosting environment for OpenEdge Business applications, however it does not provide any services or management features.

- No application architecture rules
- Good first-step the Cloud and SaaS

Rollbase is a cloud development and **fully managed** hosting environment for Rollbase Business applications. It includes platform services and management features

- Apps must be n-tier
- Full Cloud/SaaS environment



Question 2: Can I Use WebSpeed with Rollbase

Yes or No



Question 2: Can I Use WebSpeed with Rollbase

No, not today...

Progress is moving towards a universal architecture based on tomcat

Pacific WebSpeed expected in 2015

WebSpeed is a server-side technology and will continue to be fully supported.

- Based on older-style JSP where Server does "all" the work"
- Can integrate WebSpeed pages using iFrame in Rollbase



Now Your Questions





In Summary...

- You can support separate OpenEdge and Rollbase Applications
 - OpenEdge application is Client/Server
 - Can be used to provide existing app on web and mobile devices
- You can create new module in Rollbase for existing OpenEdge Application
 - OpenEdge application in n-tier
 - Can be launched from existing OpenEdge app

If On-Premise, use... OpenEdge Service Objects

- On-Premise/Private Cloud
- HTTPS (moving to native)
- Basic-Auth/HTTPS
- OpenEdge 11.3.2+

If Rollbase is hosted, use... DataDirect Cloud

- OE On-premise
- Database Security/SSL
- OpenEdge 10.2B+

Limited use for External tables

- mostly read-only
- don't rely on OE triggers
- one database/PUB schema
- latest OE is best

