

World Tour

WHAT'S NEW IN RAD STUDIO XE3

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RAD Studio XE3

The Developer Force Multiplier



Windows 8

Mac OS X
Mountain Lion



Delphi
C++

FM²

Metropolis UI



HTML5

Mobile

Visual LiveBindings



What's New in RAD Studio XE3

- Visual LiveBindings
- FireMonkey 2 - FM²
- Windows 8 Style / Metropolis UI
- InterBase XE3

Visual LiveBindings

LiveBindings – Quick Intro



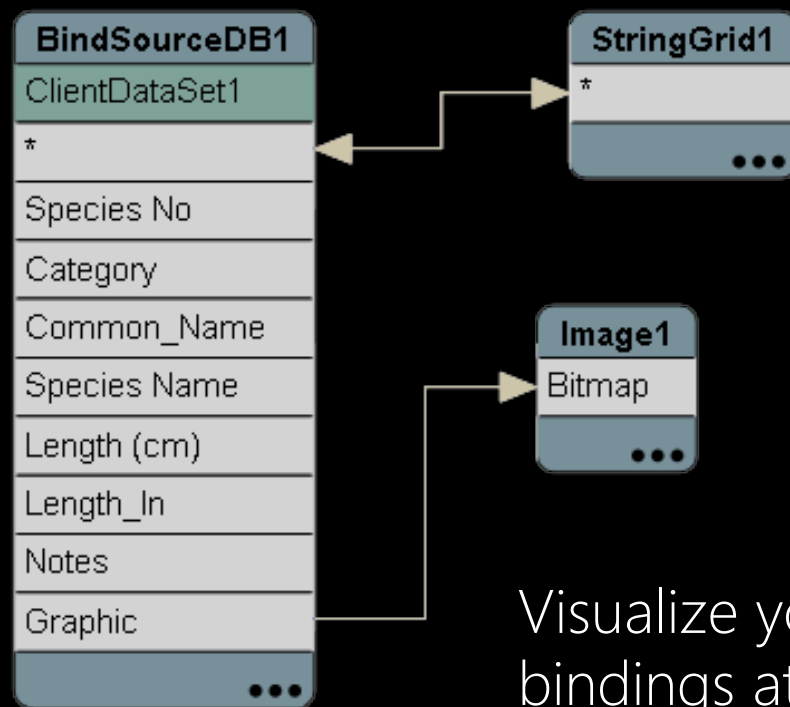
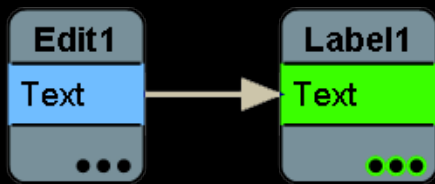
- ◉ Introduced in XE2
 - FireMonkey and VCL
- ◉ Relational expressions called binding expressions
 - Can be unidirectional or bidirectional
 - Standard converters out of the box
 - Add custom converters
- ◉ Can be used design time / run time
- ◉ Is all about control objects and source object



Visual LiveBindings



Bind data and properties
by simply drawing lines
between objects



Organize large numbers
of bindings using
Photoshop-like "layers"

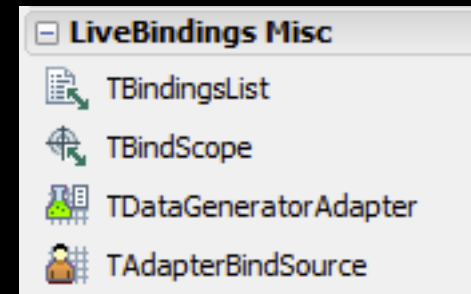
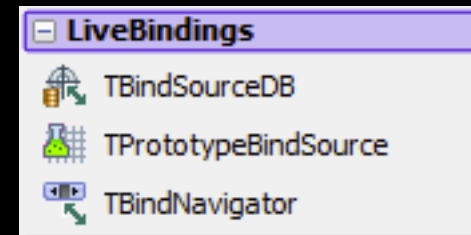
Visualize your data
bindings at a glance

Zero lines code
Delphi and C++Builder

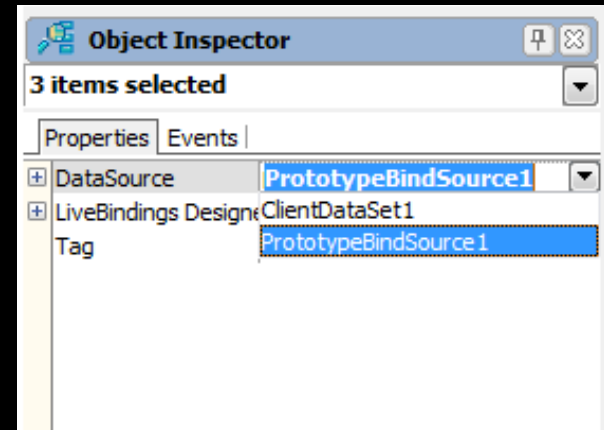
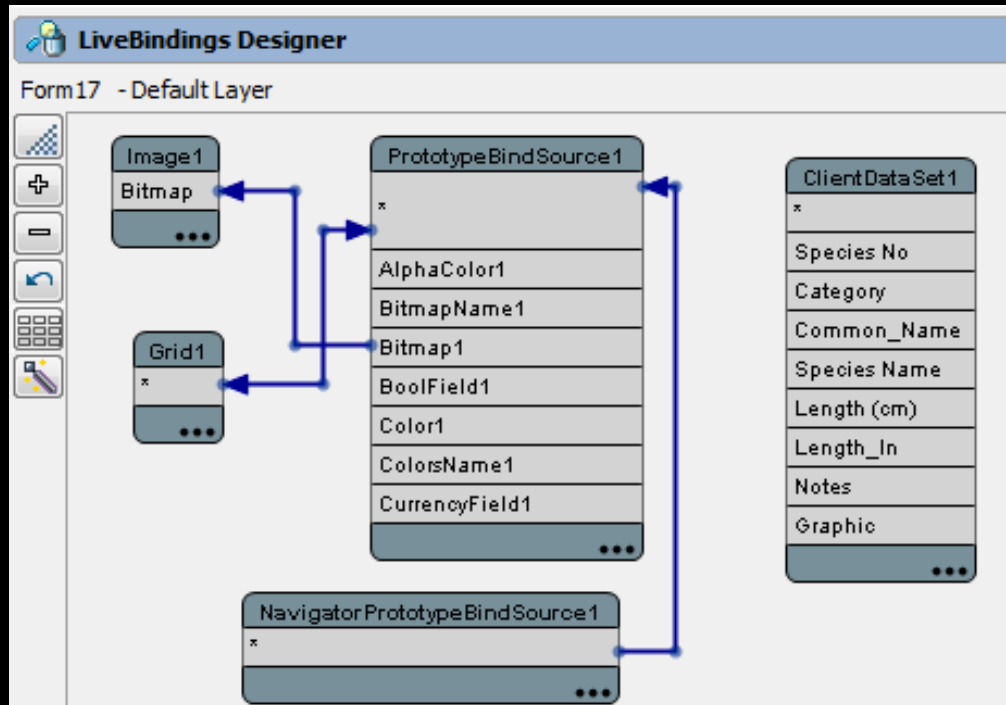
New Components



- New set of Visual LiveBinding Components
 - TLinkGridToDataSource
 - TLinkListControlToField
 - TLinkControlToField
 - TLinkControlToProperty
 - TLinkFillControlToField
 - TLinkFillControlToProperty
- Easier to link to Objects
 - TPrototypeBindSource
- Fast & Efficient
 - Uses Observers to evaluate when to update – no need for manual notification of change.



Application Prototyping

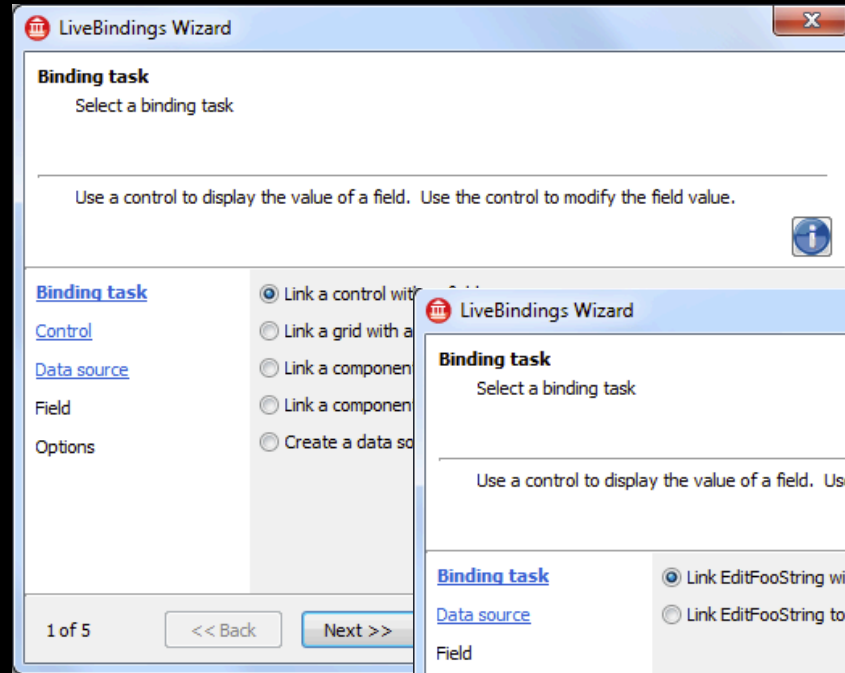
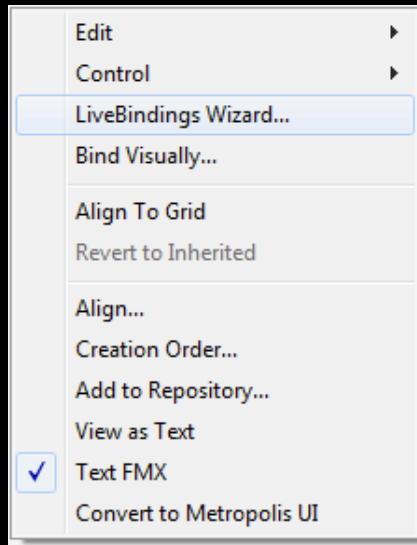
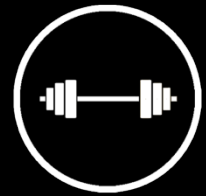


- Design and prototype your application using sample data from the TPrototypeBindSource component
- Add a ClientDataSet component to your form and load your actual data
- Simply select all of your bindings and change the data source to use your real data in your application

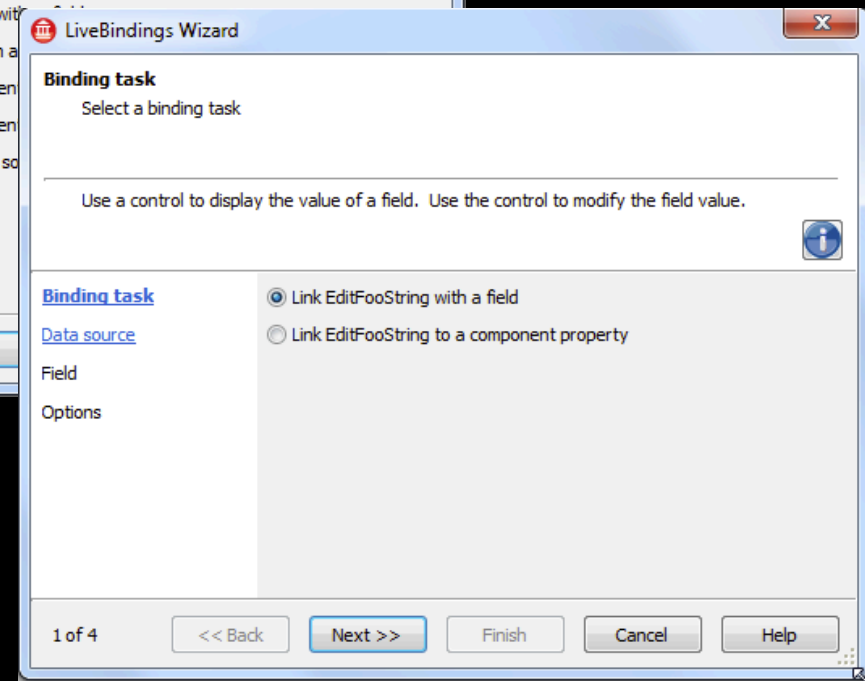
Application Prototyping

DEM 

Context aware Wizards

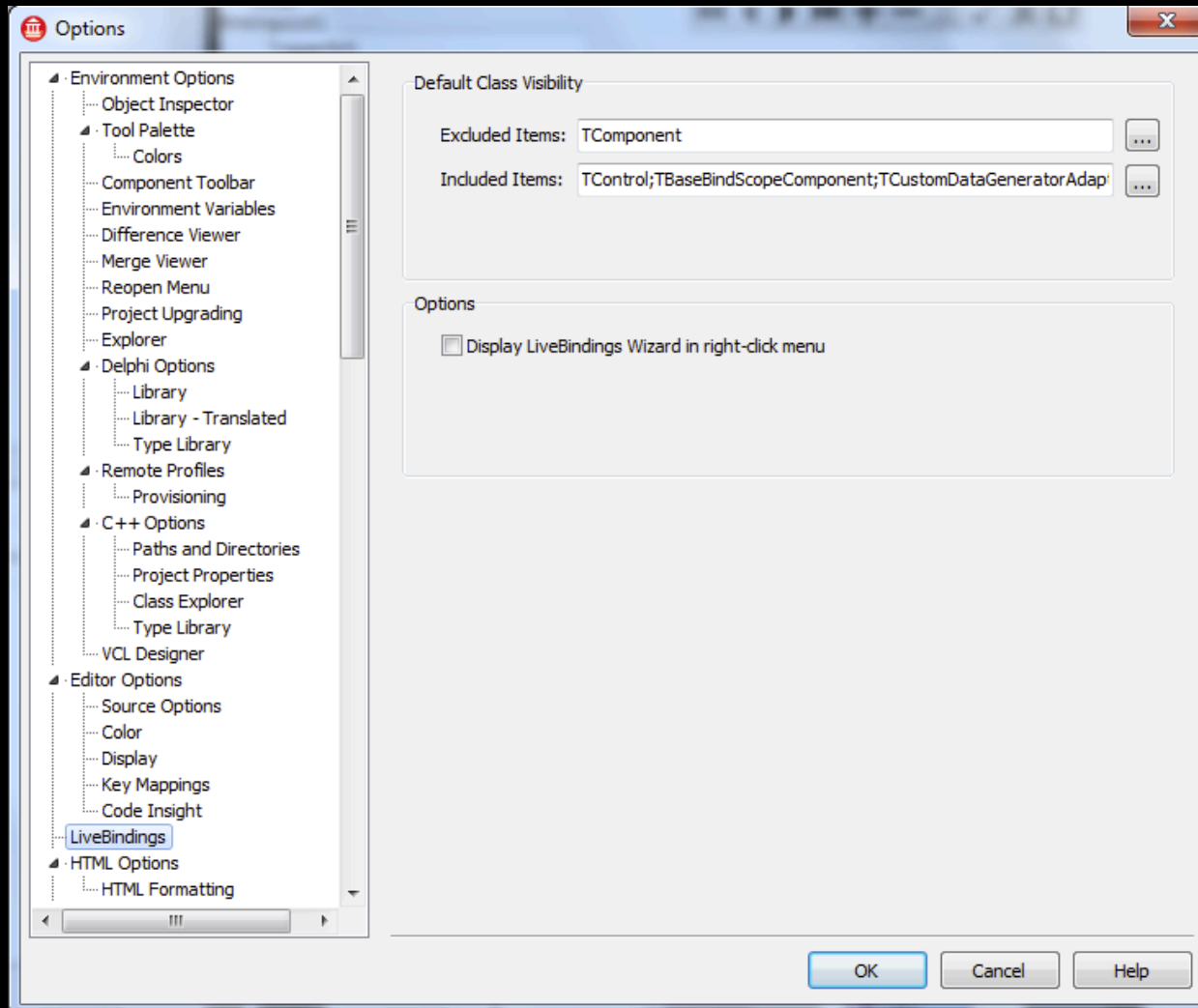
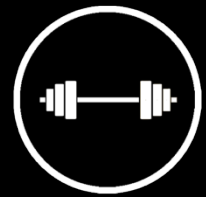


Form Wizard



Example with TEdit
selected

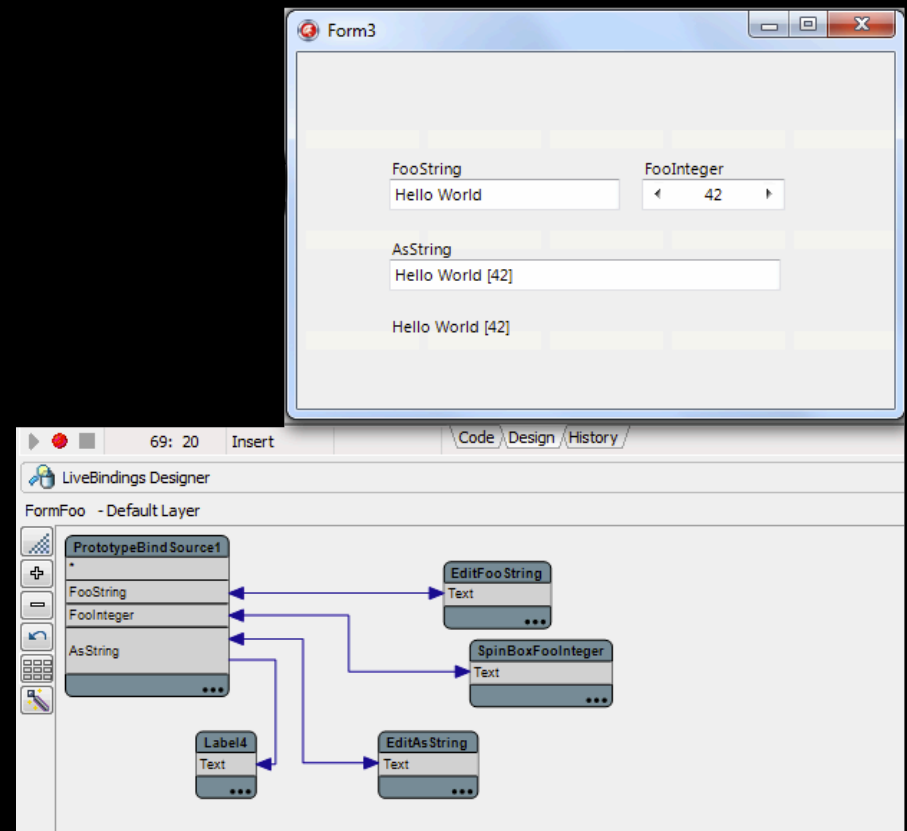
Tools > Options



Lets see it in action!!



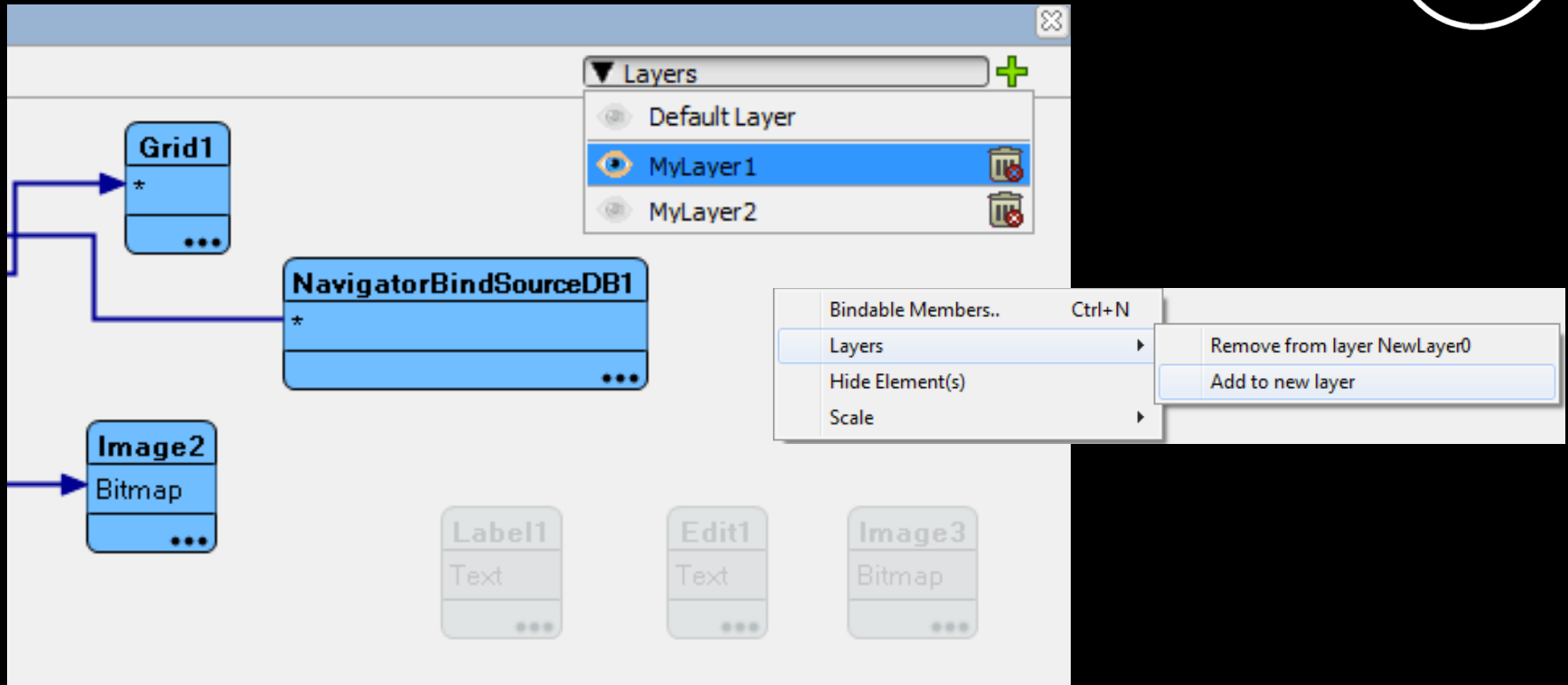
- Working with Components
- Working with TDataSet
- Working with Objects



Layers Management

DEMO 

Layers Management

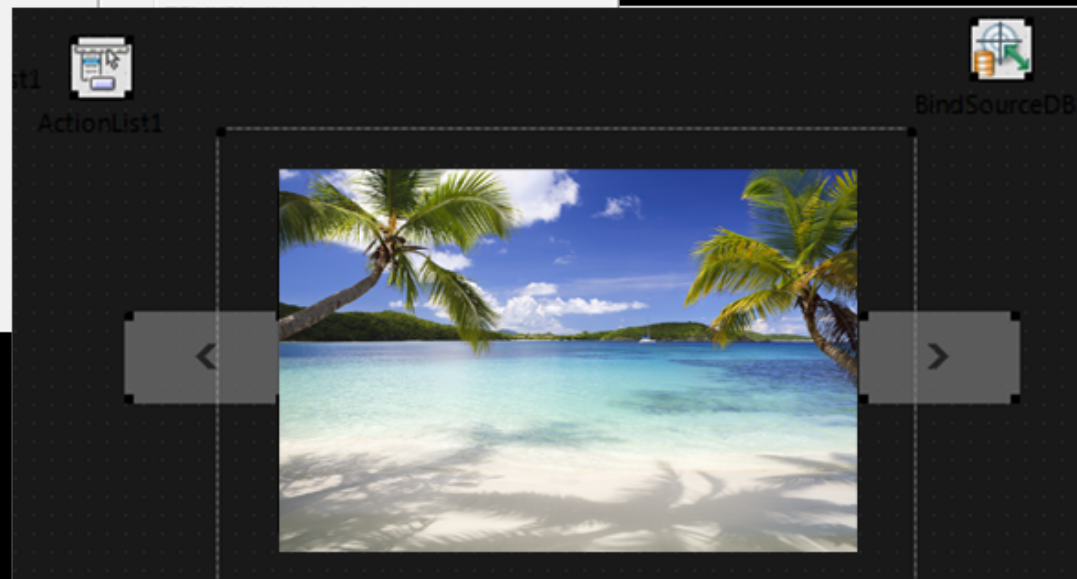
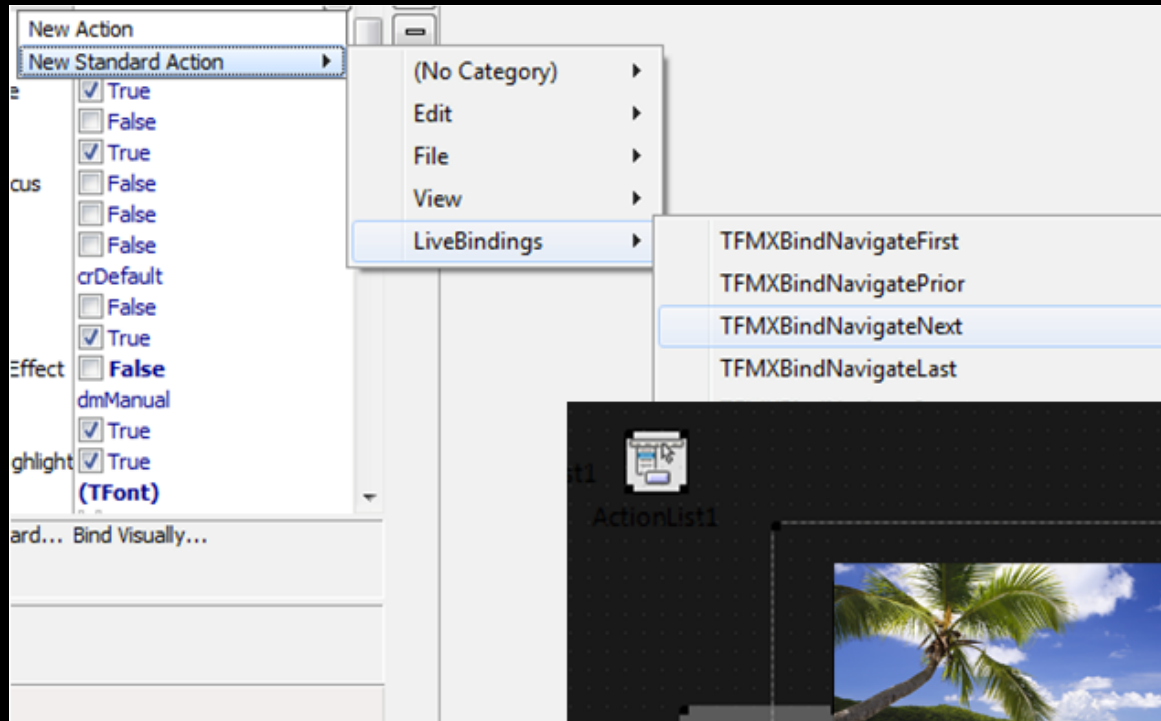


- Organize large numbers of bindings using Photoshop-like layers
- Quickly toggle visibility between layers
- Easily create your own layers
- View multiple layers at once

Layers Management

DEMO 

Actions



Easily use standard actions with LiveBindings

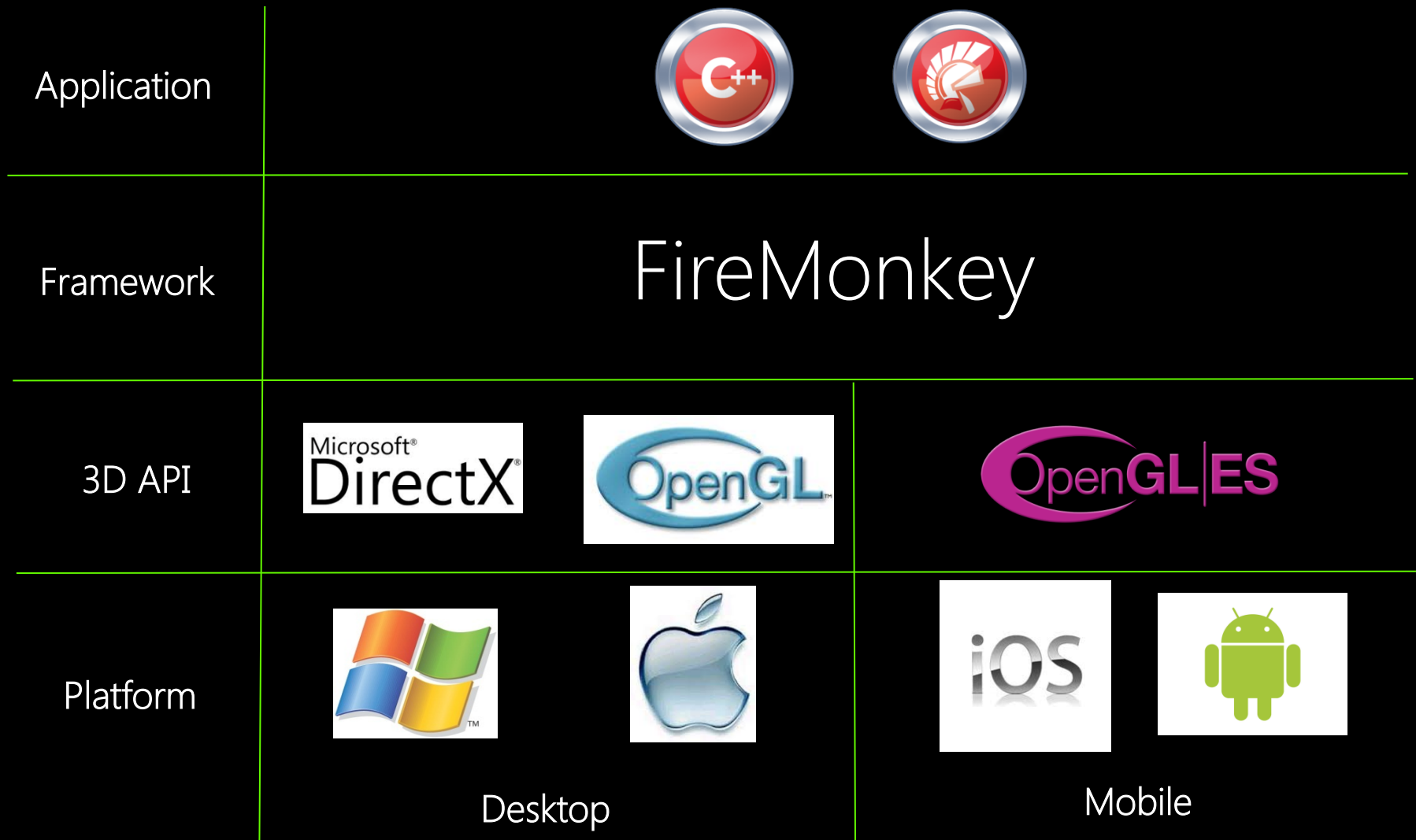
Actions

DEMO 

FM²

FireMonkey

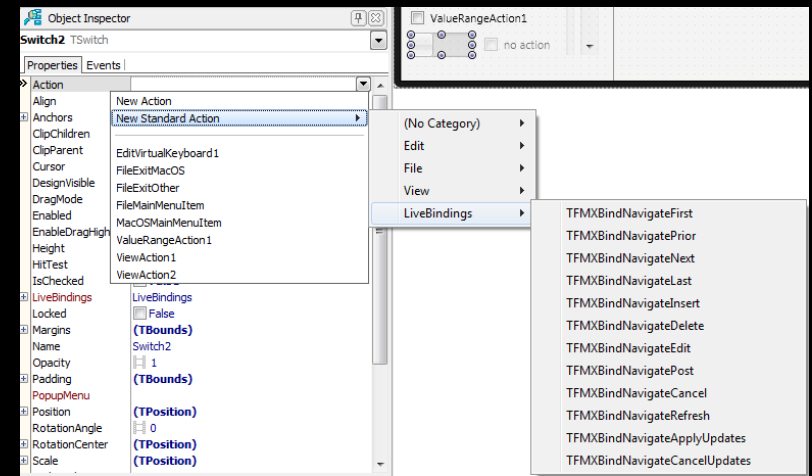
FireMonkey Graphics Architecture



Actions



- Framework-Independent Action features are Implemented in RTL
- FireMonkey framework-specific action features are implemented in new FMX units
 - FMX.ActnList, FMX.StdActns, and others.
- LiveBindings actions



Layouts and Anchors

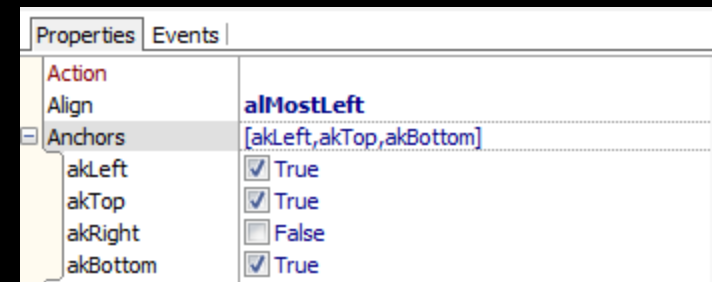
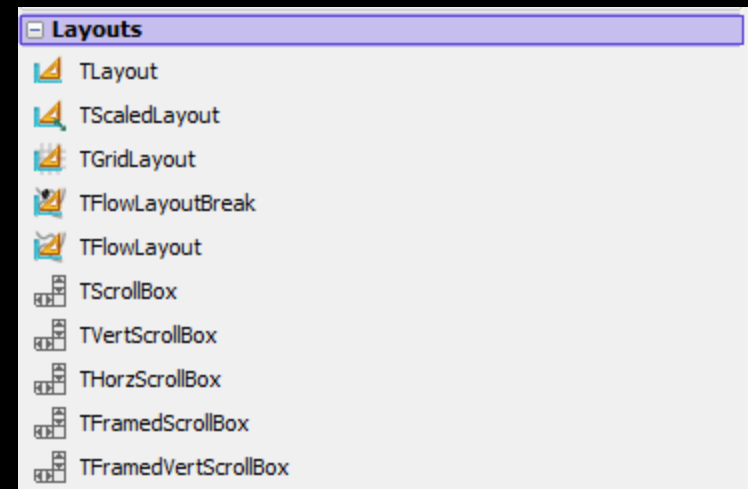


Common layout engines

- Flow Layout
- Grid Layout

Anchors

Alignment



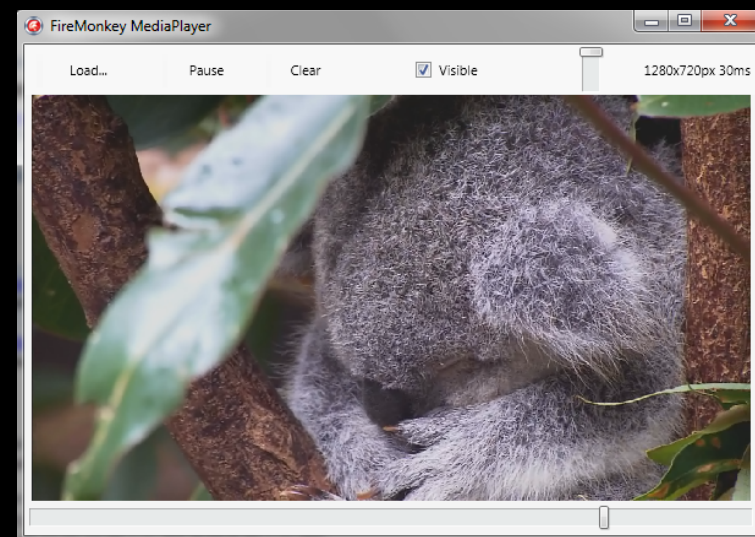
Touch/Gestures

- ◎ Same standard support as in VCL
- ◎ Gesture Manager
- ◎ Standard Gestures

Multimedia



- Audio and Video playback
- Camera bitmap capture
- Audio capture
- Windows
 - AVI, WMV, MP4, M4V, MOV
 - WMA, MP3, WAV
- Mac
 - MOV, M4V, MP4, AVI
 - WAV, MP3



Bitmap based Styles



- FireMonkey can render bitmap based controls instead of vector graphics
- Shared external (redistributable) Styles designer
- Pixel-Perfect OS specific controls
- Custom styles with non-client area styling

Mac OS X Retina

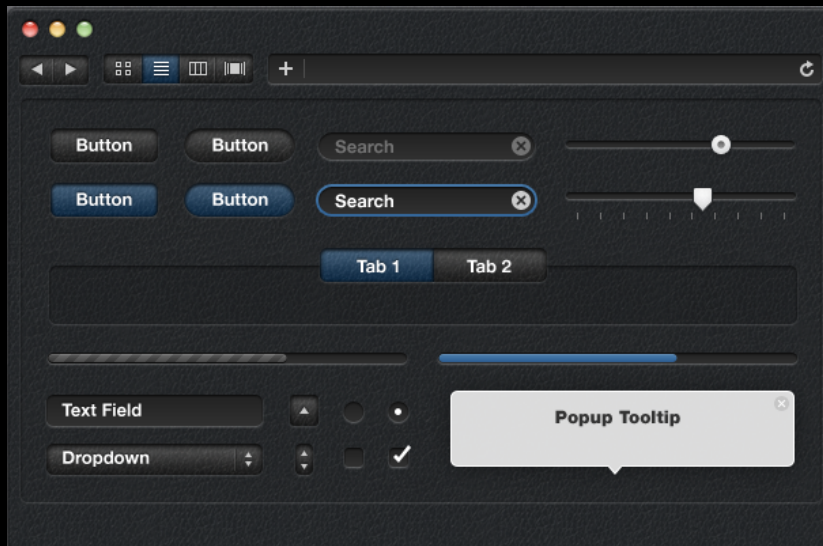


- Mountain Lion Style
- High resolution assets
- FM² determines load of Retina or regular style

Custom styles



- Non-client area styling
- Premium styles available from Embarcadero



FireMonkey 3D - Enhancements

- ◉ DirectX 9 and 10, OpenGL ARB, OpenGL ES
- ◉ FMX.Types3D.TTexture class uses GPU memory to store real data.
- ◉ TShaderManager manages shaders
 - Avoids overloading in the GPU
 - Different objects can use the same shaders.
- ◉ New material system
 - Based only on shaders
 - Allows unlimited variation of lighting and materials in application
- ◉ TMaterialSource
 - TColorMaterialSource
 - TLightMaterialSource
 - TTextureMaterialSource

Services, Sensors and Devices

- ◉ Services framework
 - Determines availability of sensors and service
 - Acquires rights from user
- ◉ Sensor and Device Management
- ◉ Sensor Components
 - LocationSensor (GPS or Triangulation)
 - MotionSensor (Accelerometer and/or Gyro)
- ◉ Devices
 - Audio and Video
 - Play and Capture

TMS Software's TMS Grid for FireMonkey

- ⦿ Part of TMS Software's TMS Pack for FireMonkey
- ⦿ Included in the Bonus Pack
- ⦿ High performance
- ⦿ Highly visual grid component
- ⦿ Supports FireMonkey 2
 - Objects
 - Styles
 - Multi-platform support: Win32, Win64 and Mac OS X

DEMO



Windows 8



Windows 8



Easy VCL/FireMonkey application migration to Windows 8
Windows 8 Desktop applications
Metropolis "Metro-Style" Apps
Delphi and C++ Builder
32-bit and 64-bit*
Intel & Atom Hardware Support
Surface Pro and Slate Tablets



*64bit C++ to be estimated to be released in Q42012



Metropolis

True Metro-Style Desktop apps on Windows XP, Vista, 7, and 8

Migrate existing VCL & FM apps to Metropolis

Project templates (Grid and Split layouts)

Surface Pro and Slate Tablet Ready

WinRT LiveTile integration

Office 2013 Styling

“Fat Finger” Touch

Gyro, Accelerometer &
Location (GPS)

Delphi and C++ Builder



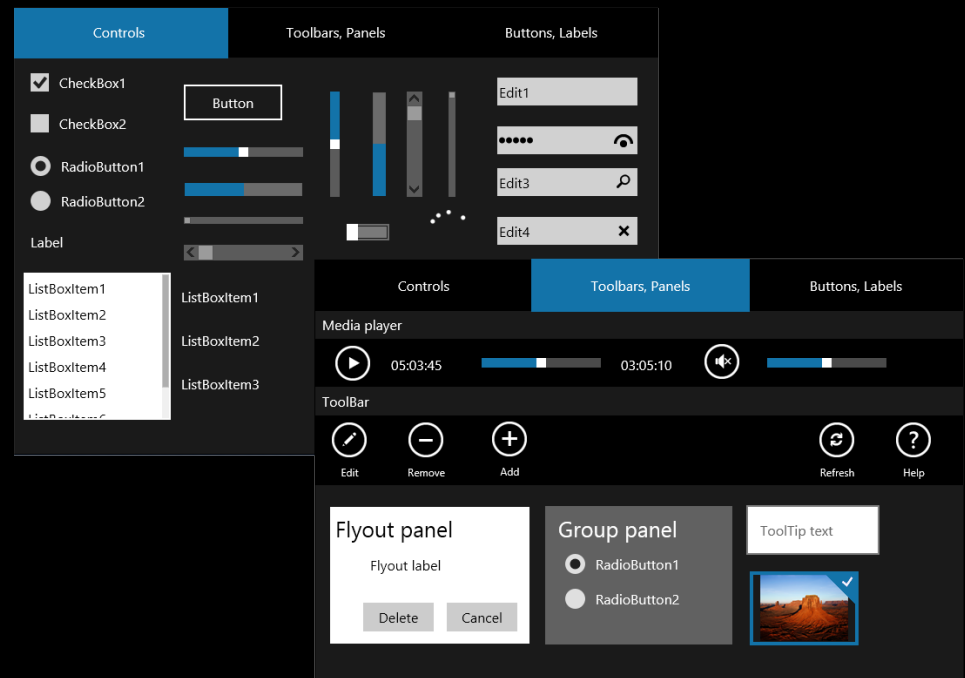
Windows 8 Style



Windows 8 Metropolis Style

Button style lookup

4 Style color combos



Buttons, Labels





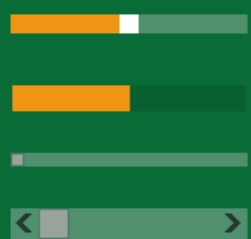
Controls

Toolbars, Panels

Buttons, Labels

- ☒ CheckBox1
- ☐ CheckBox2
- ☐ RadioButton1
- ☐ RadioButton2
- Label

Button



Edit1

.....

Edit3

Edit4

- ListBoxItem1
- ListBoxItem2
- ListBoxItem3
- ListBoxItem4
- ListBoxItem5
- ListBoxItem6

ListBoxItem1

ListBoxItem2

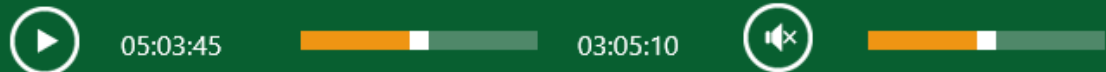
ListBoxItem3

Controls

Toolbars, Panels

Buttons, Labels

Media player



ToolBar



Flyout panel

Flyout label

Delete

Cancel

Group panel

- ☐ RadioButton1
- ☐ RadioButton2

ToolTip text



Styles

DEMO



Form Conversion



Right-click on any existing VCL and
FireMonkey form to convert to Metropolis

Adds StyleBook and styles into a Metropolis
form

Sets TApplication property

Removes non-client area

Makes form fullscreen

New Project Templates



Basic, Grid, and Split layout

VCL and FireMonkey

Delphi and C++Builder

MetropolisUIListBox

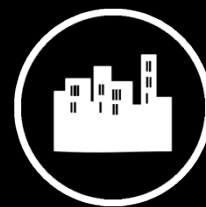


A collection of fields and image components
for a GridViewForm

Easily connects to a ClientDataSet

Populates the range of selected records into
the list

Metropolis UI Samples showing common Windows 8 elements and behavior



Windows 8 style ToolTips

Windows 8 style Flyouts

Windows 8 Style Edit Controls

Windows 8 Style FlipView

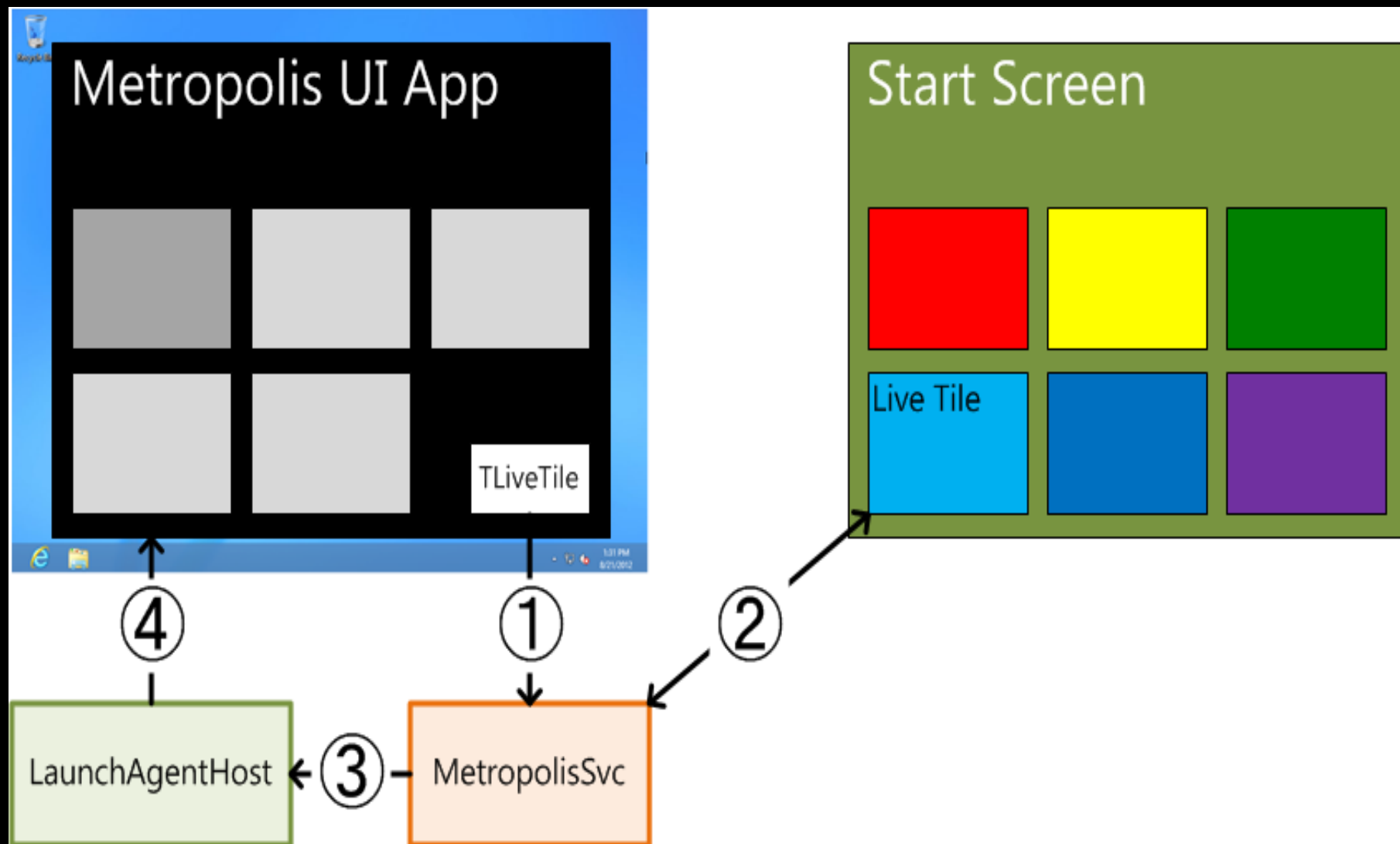
DEMO 

Live Tiles



- ⦿ Works for VCL and FM2 applications
- ⦿ TLiveTile component
- ⦿ Metropolis Service – display updates on tile
- ⦿ Launch Agent Host – associate tile with app
- ⦿ Sideloading the application
 - Win8 Development License
 - Win8 Enterprise edition
- ⦿ Supports Narrow and Wide Tiles

Live Tiles



DEMO



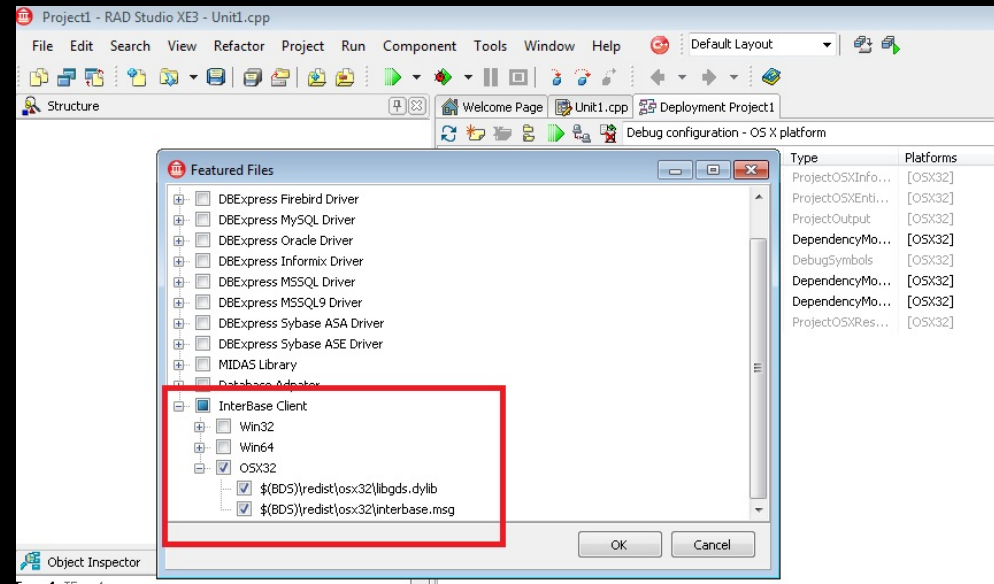
InterBase XE3



InterBase XE3



- ➔ Free Developer Edition of InterBase XE3 included with IDE
- ➔ New! ToGo test deployment licenses included with RAD Studio
- ➔ Directly deploy apps and databases from the RAD IDE for Server and ToGo Edition -> Windows & Mac
- ➔ New! dbExpress ToGo connector and 64 bit ODBC driver
- ➔ Copy databases directly between XE3 Windows and Mac
- ➔ Continue using InterBase XE for Linux ,Solaris and Mac(server edition)



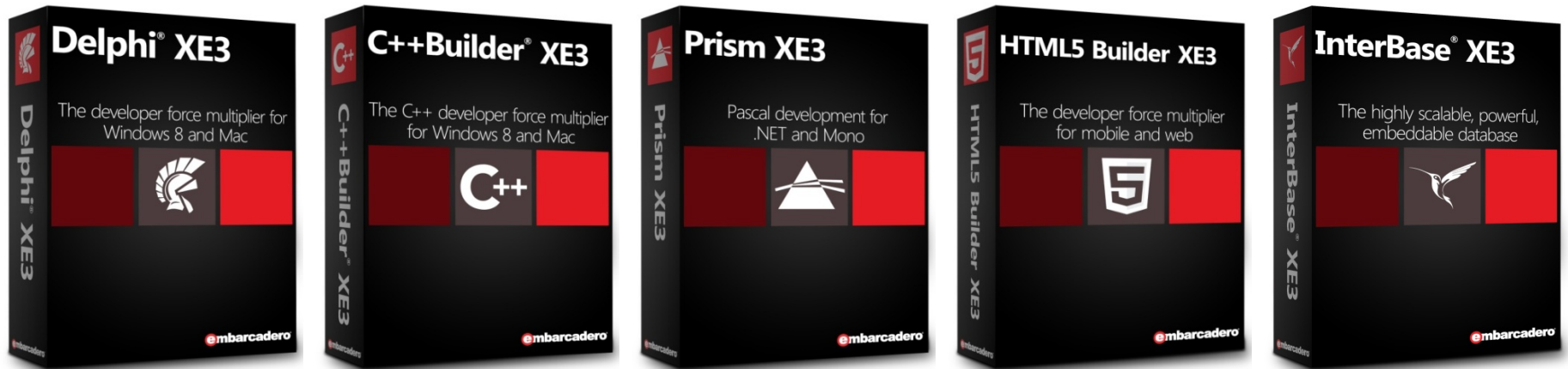
Summary

Summary

- Development teams are facing more challenges than ever to support an increasing number of platforms
- RAD Studio, the developer force multiplier, provides the solution
- Develop for Windows, Mac, web and mobile
- Virtually multiply your development force with RAD Studio XE3



RAD Studio includes



Choose the edition that's right for you

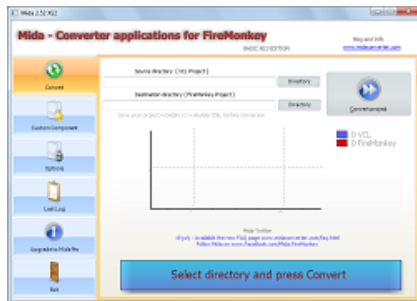
Features/Edition	Architect	Ultimate	Enterprise	Professional	Starter
Database connectivity and drivers	Local/remote and for all databases including InterBase, SQL Server, Oracle, Sybase and more via ODBC. Advanced Amazon and Azure cloud connectivity.			Local InterBase, MySQL and SQLite only.	XML in memory data only
Compilers	Windows (32-bit and 64-bit for Delphi) and Mac OS X				32-bit Windows only
IDE tools	Advanced with refactoring, unit testing UML visualization and full UML modeling			Advanced with refactoring, unit testing, UML visualization	Basic
Components	Basic and advanced VCL and FireMonkey components with source code and ability to create components.				Basic VCL and FireMonkey components.No source code.
Advanced database tools	ER/Studio Developer Edition	DB PowerStudio Dev Edition	None		
Earlier version access	Get licenses and downloads for earlier versions				Not included
License	Full commercial license				Limited commercial

Free RAD XE3 Bonus Pack

When you buy RAD Studio XE3, Delphi XE3 or C++Builder XE3

Offer ends September 28, 2012

Mida Converter



TMS Grid



Premium Style



- Get \$250 US in additional software free with purchase of Delphi XE3, C++Builder XE3 or RAD Studio XE3
- Bonus Pack includes: VCL to FireMonkey converter, FireMonkey grid control, and FireMonkey premium style
- Offer ends 28 September 2012

Questions?

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