

InfoPower for FireMonkey 2.5

Woll2Woll Software

Feb 20th, 2014

<http://www.woll2woll.com>

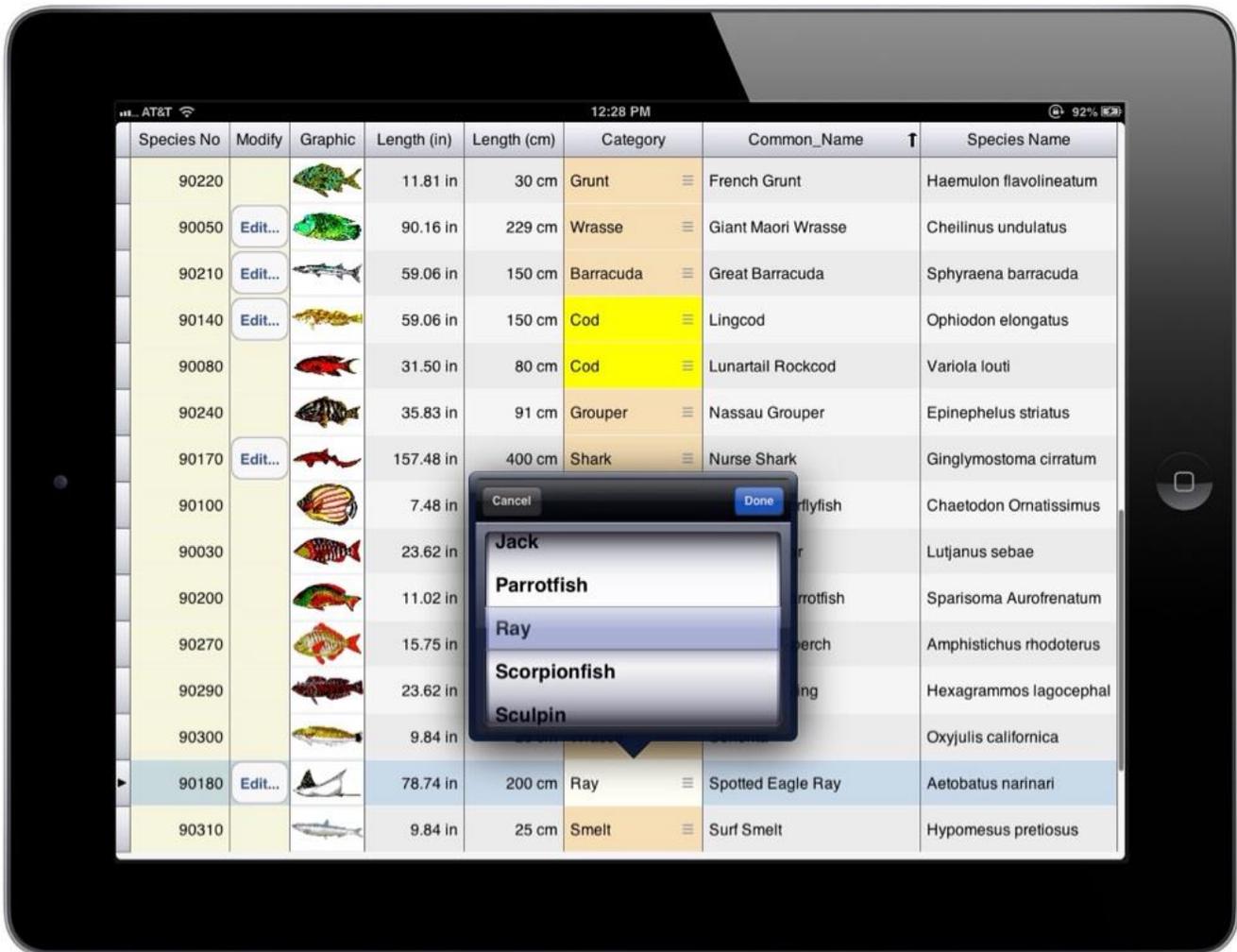
Version 2.5

Our exciting InfoPower FireMonkey 2 (FMX) component suite allows you to develop applications for Win32, Win64, Mac (OSX32), Android, and iOS devices and simulators using Embarcadero's RAD Studio XE5. Similar in capabilities to our award winning InfoPower VCL library, our FMX components integrate seamlessly with your existing data and are truly data-aware components.

Updates: To download the latest version of InfoPower FireMonkey please visit <http://www.woll2woll.com/downloads.html>

This 2.5 update adds integrated online help for the grid (remaining components not complete), validation mask designers, demos, and multi-select capabilities in the grid. This update also adds the new TwwLookupDialog component for quick incremental searching (even in the mobile space) and adds mobile support to its TwwLookupComboEdit component.

WARNING: Please note that if you are using Rad Studio XE5, you must install Update Package 1 from Embarcadero. If you do not, the display for the mobile space will be corrupted with the InfoPower grid components.



1. InfoPower's Masterpiece Grid

Central to our component suite design for FireMonkey is our greatly enhanced data-aware grid which is complemented with a library of other components. Our FireMonkey grid component is mobile optimized as it is designed to be incredibly responsive and natural for the end-user, and powerful and flexible for the developer. Here are some of the capabilities of this grid.

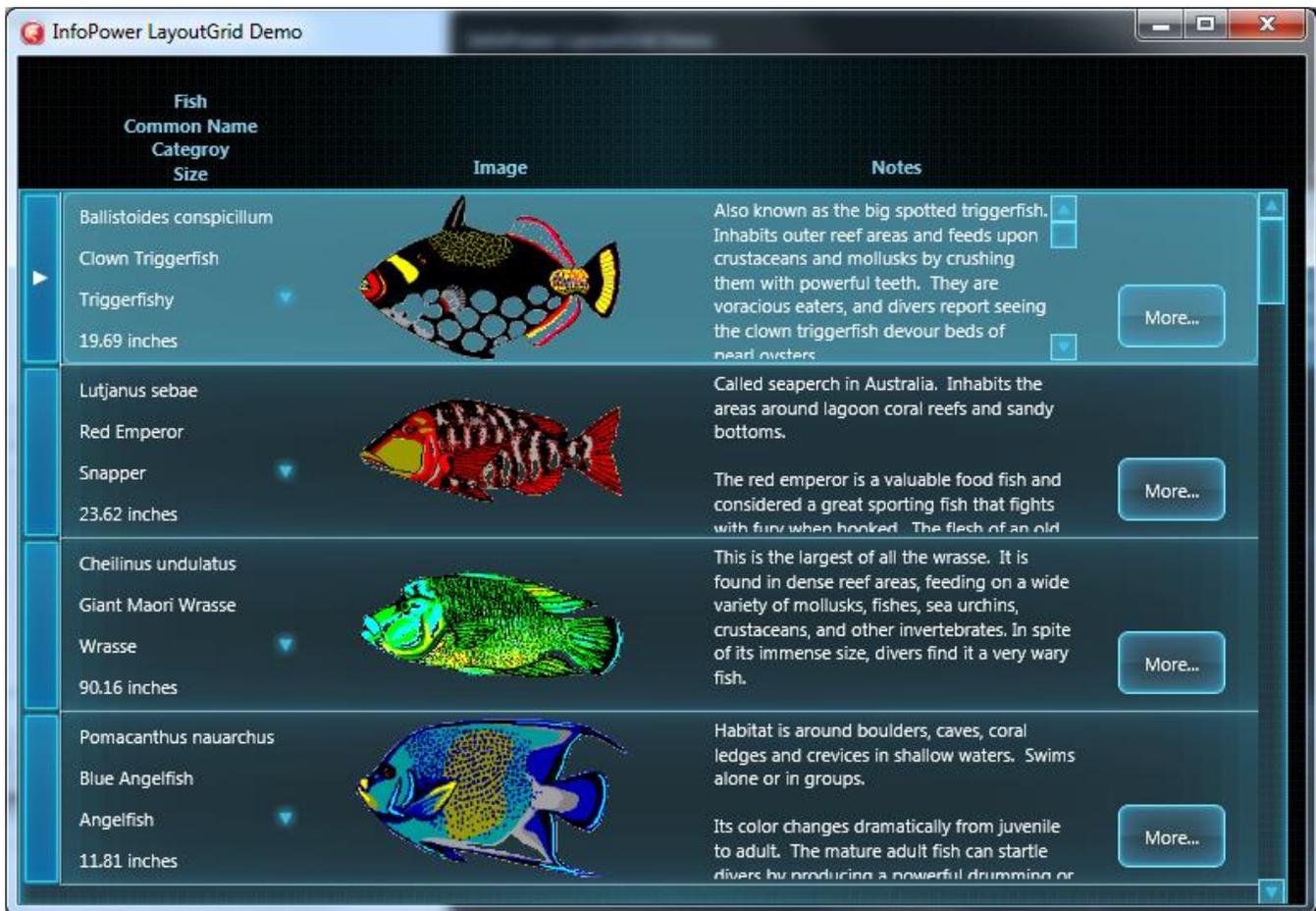
- **Embed custom controls** such as buttons, combos, checkboxes, switches, lookupcombos, datepickers, and images into the grid. Absolutely no coding required for this. Also you can dynamically determine when custom controls are displayed based on the value of data for that record.
- **Performance:** Data is buffered so that the grid only loads records that it needs to display. This allows for fast grid display that is not crippled by the number of records or columns in the dataset. In fact, our FMX grid rivals in performance to our super-fast VCL grid.
- **Smooth scrolling** – The mobile space relies upon touch, acceleration, and momentum for scrolling. The DataGrid implements smooth scrolling using all of these factors giving your mobile apps a natural responsive experience.
- **Clickable column headers** with built-in support for sorting (ascending or descending). The buttons for the column headers are automatically painted in the native style.
- **MultiSelect support:** Allows you to select multiple records with a checkbox or a switch in the grid and operate on them as a whole
- **In-memory support** - Use with in-memory datasets such as the TClientDataSet to have a grid display data independent of any physical file.
- **Fixed column support**, including editable fixed columns.
- **Codeless Validation constraints:** Supports InfoPower's robust validation languages for enforcing data constraints. The developer can use either picture validation masks or regular expression validation masks. See section 3 below for more information on the validation languages.
- **Flexible design time columns editor:** Our columns designer is significantly enhanced over our VCL counterpart and you'll be able to accomplish even more tasks without any coding.
- **Integrate styles seamlessly** with no effort on your part. Just change the style and the grid recognizes the changes. You can still override the grid's fonts and colors when needed.

| Cust No | Buyer | Company Name | First Name | Last Name | Street |
|---------|-------------------------------------|-----------------------|------------|-----------|---------------------|
| 6247 | <input checked="" type="checkbox"/> | American Red Cross | Adrian R. | Condren | 2151 Canyon Creek |
| 2010 | <input type="checkbox"/> | Cain&Abel Communicati | Clive | Northrop | 7501 Foothills Blvd |
| 7364 | <input checked="" type="checkbox"/> | Career Center | Donald | Pacheco | 2307 Oregon St. |
| 8909 | <input checked="" type="checkbox"/> | Fox Communications | Carl B. | Riccio | 1 Public Square, St |
| 732 | <input checked="" type="checkbox"/> | HMS | Red | Carney | 1000 Paseo Camar |
| 3097 | <input type="checkbox"/> | High Technology | Steve | Calayag | 2430 Consaul Road |
| 6793 | <input checked="" type="checkbox"/> | Intel | Charles | Carpenter | 2407 Charles Ave. |
| 492 | <input checked="" type="checkbox"/> | Pip Printing | Carl | Levine | 9607 Commonwea |
| 7969 | <input checked="" type="checkbox"/> | RPCIO | Tim | Candler | 18 Livingston Dr. |
| 2749 | <input checked="" type="checkbox"/> | Simsbury Aquatics | Elvin | Carney | 3300 Battleground |
| 8454 | <input checked="" type="checkbox"/> | Starhouse | Dorian | Carney | 440 West End Aven |
| 3794 | <input type="checkbox"/> | Wheel Works | Carl | Bage | 13455 Noel Road, S |

- **Flexible painting** : Customize colors/fonts based on a record or cell basis. Can display custom controls on a record by record basis instead of for every record. Numerous painting options including alternate row colors, highlighting of entire rows.
- **Natural keyboard handling** – Convert carriage returns to tabs, virtual keyboard supports automatic vertical shifting of edit control for display,
- **Filtering** - Use the grid with our new *TwwSearchBox* to get seamless filtering. You can automatically allow the text to be searched on one or multiple fields and have the grid highlight the cells that match the text.

2. Flexible LayoutGrid

InfoPower also includes the highly flexible *TwwLayoutGrid*, which allows you to drop controls into a panel that are repeated vertically, horizontally, or both. This is particularly useful for the mobile space where a more open layout allows the developer to express the user-interface more intuitively. The standard vertical grid may not always be the ideal interface for multi-record display.



Other components included in our InfoPower FMX suite are the *TwwLookupComboEdit*, *TwwComboEdit*, *TwwCalendarEdit*, *TwwCheckbox*, *TwwSwitch*, *TwwEdit*, *TwwLookupDialog*, *TwwFilterDialog* and searching components (*TwwSearchBox*). Each has similar capabilities to its InfoPower VCL suite counterpart, including incremental searching, filtering, validation constraints for input including picture masks and regular expression masks.

3. Superb Validation language

InfoPower for FireMonkey provides two independent but expressive languages to validate your user's data entry.

- **Regular Expression edit masks**
InfoPower gives programmers the ability to validate their user's input using regular expressions masks. A regular expression is a special text string for describing a search pattern. Regular expressions are one of the most powerful ways to define a set of rules, and are widely used across many different programming tools.

As-you-type validation is supported, and the end-user can be visually notified of the validity of their input using the error colors.

- **Picture edit masks**

InfoPower gives you incredibly flexible and expressive picture masks which greatly assist in automatically validating your user's input. InfoPower's masks duplicate the Picture function that's been available in Borland's Paradox relational database product, providing the power of a full mask language instead of just a mask template. Picture masks greatly assist the end-user during data entry by intelligent auto-filling of characters where appropriate as well as informing them if they have incorrectly entered any data. This allows data entry to be faster and easier. Here are some examples of the power of picture masks.

Street Address Capitalization

The first letter of each word is automatically capitalized. For instance, if the user enters “235 quinault way”, InfoPower conveniently converts the input to “235 Quinault Way” as they are typing.

Masks which contain optional sequence of characters

Such as an optional zip code suffix in a zip code. If the user does not match the format defined by your mask, you can inform the user visually or prevent the control from losing focus.

Intelligent auto-filling of characters as the user types

The user's keystrokes can be minimized as the mask language can fill in the static characters. For instance with a SSN mask of ###-##-####, the dashes (-) can be automatically filled in so that the user just needs to type in the numbers.

4. Advanced LookupCombo and LookupDialog Controls

InfoPower gives you the most flexible component for selecting entries from a lookup datasource. The components are not compromised by smaller form factors in the mobile space, and allow users to quickly lookup and locate the data they want. Here is some of what this powerful component can do.

- **Quicken style incremental searching**

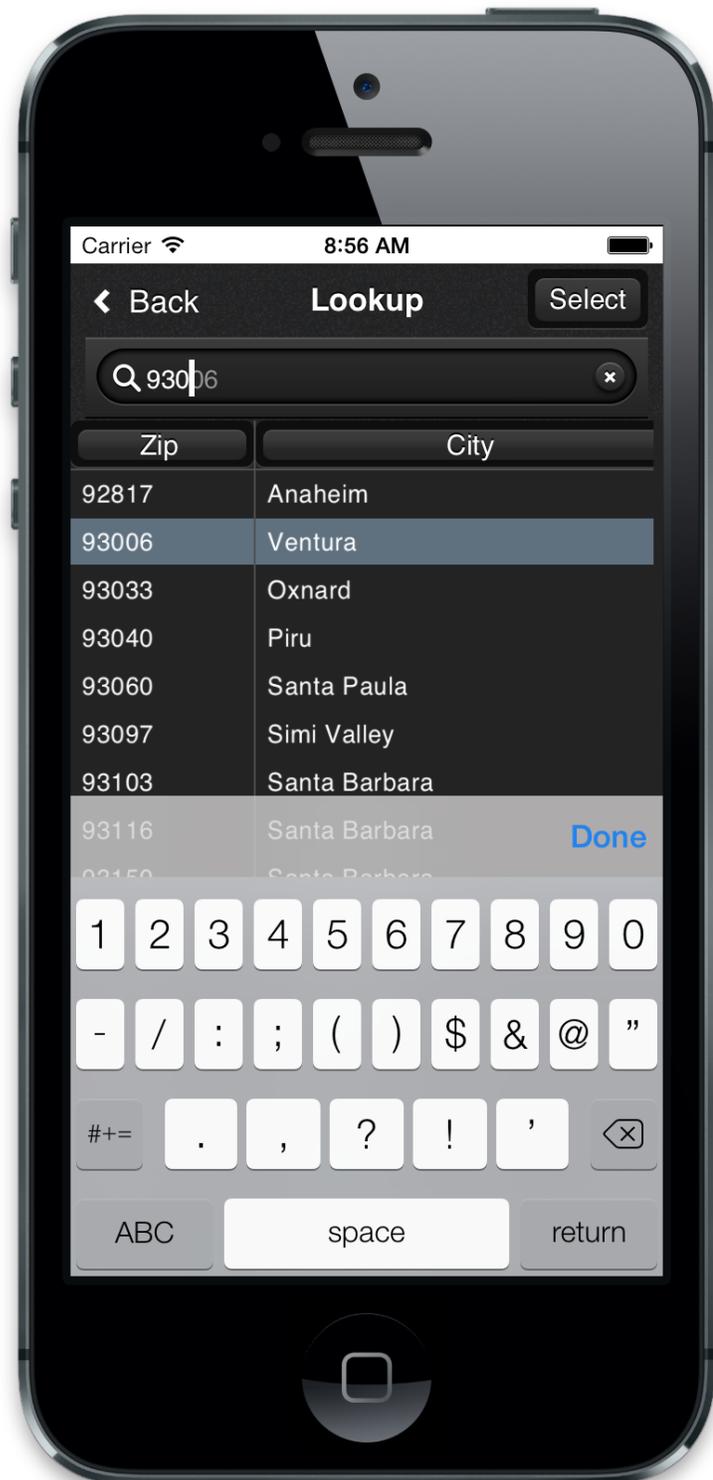
Supports the 'Quicken' style display of the matching value, by simultaneously searching and displaying the matching text in the search control.

- **Multiple Columns in the DropDown Box**

Select any number of fields to be displayed in the drop-down list along with defining their display width and optional titles.

- **Sorting flexibility**

The values in the drop-down list are sorted in the order of the first field you select to be displayed, if it's a secondary



index field, instead of being sorted in primary key order.

- **Embed into InfoPower's DataGrid and LayoutGrid components:**
The component can be used in a TwwDataGrid component to replace any multiple-choice type of field in the grid, giving your end-users sophisticated lookup and fill capabilities within the grid.
- **Use unbound or bound**
The component does not have to be bound, or assigned, to a table's field which gives you greater flexibility in using this LookupCombo for general tasks where a source table is not involved.

5. Date Control - TwwCalendarEdit

InfoPower provides the most flexible and usable CalendarEdit control for Delphi. DateTimePickers support drop-down calendars to assist the user in selecting a date.

Embed within InfoPower's **DataGrid and LayoutGrid** components.

- Use with or without a database.
- Smart data entry : Auto-advances when enough characters have been entered, and auto-fills the date
- Display the date in the format of your choice using a display format mask. Also supports International date-time formats.
- Integrated with the platform's native date picker on the mobile space

6. Visual Filtering

InfoPower's TwwFilterDialog (currently desktop platforms only) is one of the most useful end-user components as it enables them with the ability to visually filter a dataset, modify the where clause of an existing SQL query.

Simple for the end-user to use:

Even though the dialog is capable of sophisticated SQL generation, the dialog is simple to use as it completely hides the filtering and SQL details from the end-user.

- **Unmatched filtering power:**
Your end-users can specify a search value, or a range, for any number of fields contained within the dataset.
- **Wildcard Filtering within Fields**
Select a specific type of data match to be performed within the field, such as "From beginning of field", "Anywhere within the field", and "Exact match".
- **Special customizable keywords**
Specify keywords such as "AND", "OR", "NULL" to specify multiple filter criteria for each field, such as... John OR Paul. InfoPower also allows the end-user to easily see all non-matching records.
- **Filter memo fields**

See <http://www.woll2woll.com/Ordering.html> for further details on ordering InfoPower, and special upgrade pricing.

Note: Due to the anticipated rapid release schedule planned by Embarcadero for Delphi/Rad Studio to support the mobile space, we recommend you purchase one of our maintenance contracts. Woll2Woll will also issue more rapid updates to keep in sync with the changes in Rad Studio. Our maintenance contract will allow you to receive all our major updates for up to one year. You are guaranteed at least one major update.

Demos

Please review the demos located in your public documents folder under
For Rad Studio XE5 - InfoPower\fm\2.0

Documentation Notes:

Here are some documentation notes. Please review the various demos included as this should get you started. We will be uploading tutorials soon on youtube to show you how to achieve some common tasks with our new FMX components.

- With the FireMonkey *TwwDataGrid* component you will need to associate it with a *TBindSourceDB* component. This can easily be done by dropping in a *TBindSourceDB* component and assigning its Dataset property, or you can right-click your dataset at design time and click on the Create *TBindSource* menu option.

- To customize the columns, dbl-click the grid during design time. To see a quick demo, open up the demos\GridStyles\ProjectGridDemo. This demo also shows how the InfoPower FMX DataGrid automatically uses the styles defined and they can be changed dynamically. The demo also uses checkboxes, dynamic buttons, dateCalendarEdits, and a LookupCombo to lookup a zip codes.
- To customize cell control types, dbl-click the grid, select the column, followed by setting the *ControlType* and *ControlAttributes* properties. For instance, if you set the *ControlType* to *gdctCheckbox*, then you can control the checkbox display by setting the *ControlAttributes.Checkbox* properties. Similarly if you wish to add a custom combo list to the column, set the *ControlType* to *gdctCombo*, and the customize the *ControlAttributes.Combo* properties.
- To customize if a control should be painted for a given row, use the *OnUpdateColumnControl* event. See the demo *ProjectGridDemo* for an example of this.
- To customize the fonts/colors for the entire grid, use the grid's *OverrideStyleSettings* property or change the form's *StyleBook* if you wish to do so globally
- To customize the painting on a cell or record basis, use the *OnCustomDrawCell* event. This allows you to change the colors, fonts, and text for individual cells based on the value of the related record. See the demo project demos\GridColoring\ProjectCustomPainting
- To enable buttons set the *TitleAttributes.TitleButtons* property to true.
- To enable auto sorting with the title buttons, set *TitleAttributes.Options.sfoSortAscending* and *TitleAttributes.Options.sfoSortDescending* to true.
- To alternate the color of rows in the *TwwDataGrid* based on the colors of the active stylebook, set *Options.dgAlternatingRow* to true
- To convert carriage return to tab automatically in the *TwwDataGrid*, set *KeyOptions.dgEnterToTab* to true

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