

Framework Building Blocks – Part 2

(Excerpt for DataField reference)

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3.1 DataFields

DataField

• A "smart" control that renders based on the type of field in the Business Object.

DataFields – Why?

- The usage of DataFields in Forms & FormParts is vital to the integrity of the framework. Here are some of the reasons to invoke DataFields:
 - Field-Level Permissions
 - User-Adjustable Field Data Tool-Tips
 - System-Wide Consistent Field Labels
 - Common Look & Feel

DataFields - Rendered

XAML Code:

```
<controls:DataField DataFieldName="InterestRate" LabelText="Current Interest Rate"/>
<controls:DataField DataFieldName="PerDiemInterest" DataObjectName="LoanData"/>
<controls:DataField DataFieldName="LoanTypeId"/>
```

Screenshot:

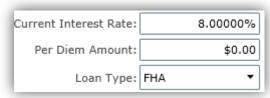


Figure 3.1.1 – A sample of DataFields in XAML code (left) and matching rendered controls (right).

- The figure above shows 3 DataFields that are almost identical in the XAML code, even though they render as different types of controls.
 - NOTE: DataFields also generate <u>labels</u> when rendered.

DataFields - MetaData FieldInfo

Figure 3.1.2 – The MetaData for the DataFields and controls from figure 3.1.1.

 The "FieldInfo" element in the MetaData contains details for how a DataField is rendered, like labels and edit-types.

DataFields - Labels

- Labels can be set in a couple of places:
 - In the MetaData, within the FieldInfo element.
 - This is the preferred method for defining label text, as it allows for the same label to be shown throughout the application for the particular field.

- 2. In the **XAML** mark-up code, within the **DataField** element.
 - The text here overrides the label text defined in MetaData.
 - Defining label text here should only be done as an exception, as it breaks the consistency inherit in defining the label in MetaData.

DataFields - EditTypes

- Here is the current list of EditTypes:
 - Default
 - Text
 - MultiLineText
 - Date
 - Phone
 - Integer
 - Currency
 - InterestRate
 - Masked
 - DropList
 - CheckBox

- Decimal
- Label
- Percentage
- YesNo
- DaysInYear
- SSN
- Gender
- TIN
- Email
- DateTime
- CaseNumber

- WebSite
- PostalCode
- Year
- FullPartial
- PassFail
- Rule
- Enum

DataFields – DropDownLists

- 1. DataFields that render as DropDownLists need to reference a source for the values displayed in the drop-down.
- 2. DropDownList sources are defined with "LookupInfo" elements as children of their respective fields. (See figure 3.1.5 below)
 - The LookupInfo element contains relationship information, including:
 - FillObjectName The name of the object type that will fill the drop-down list.
 - CodeFieldName The name of the field that stores the look-up code.
 - DescriptionFieldName The name of the field that stores the displayed text.

Figure 3.1.5 – A drop-down list source defined in MetaData as "LookupInfo".

The End

- This was just an excerpt of "Framework Building Blocks Part 2" to explain how DataFields work and why they're important.
- More to come:
 - FormParts
 - Forms
- For help with UI, check our "Form Layout Guide"
 - NOTE: it was developed pre-merger and acquisition so the branding isn't official BKFS.