

Rendering a Blaise 5 Survey on Different Devices

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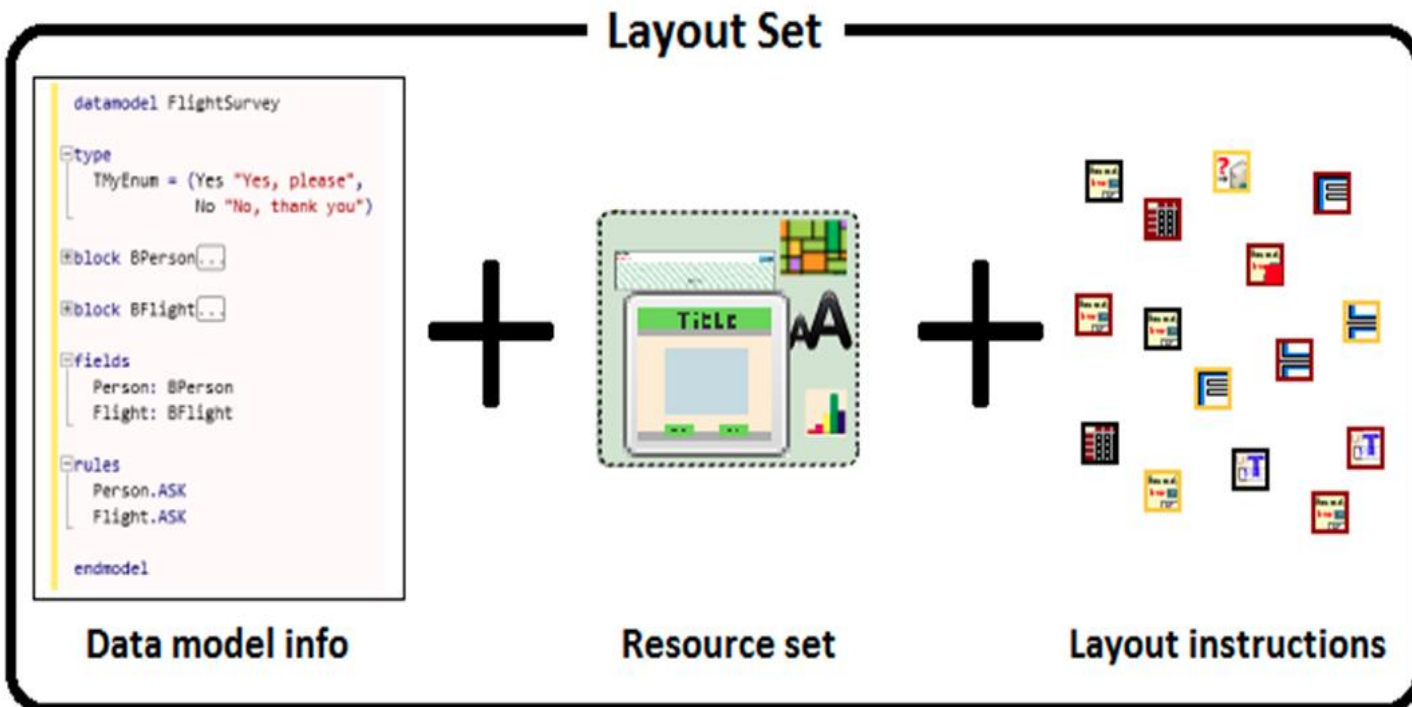
Challenges Utilizing Mobile Devices

- There are a number of challenges associated with utilizing mobile devices for survey data collection.
 - Can respondents effectively use them?
 - Will respondent candidness be affected by mobile devices?
 - How much information can be displayed?

Presentation Concepts

- In a multimode survey the desire is to use the same code but employ different visual presentations.
- An organization might need
 - a self-administered browser-based interface for web respondents
 - a much denser and more capable interface for its trained CAPI interviewers
 - another interface for mobile device users
- Blaise 5 accommodates each presentation utilizing a Layout Set

Layout Sets



Modifications

- Tasked to replicate one of our corporate methodological surveys using Blaise 5
- To run on specific devices
 - Desktop
 - iPhone
 - iPad
- In order to accommodate the look and feel of each device we made modifications to the standard resource sets, templates and layout instructions for each device.

Page Modifications

- Number of questions per page
- Display format of the navigation buttons
- Placement of navigation buttons
- Created custom pages
 - Save and Continue
 - Exit

Master Page

Datamodel Title Text

Content Area

<Previous **Next>**

Save and Continue Later

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Custom Page

Datamodel Title Text

Save and Continue Later

The answers you have entered so far have been saved. You may return to complete the survey until the survey closing date.

<Return to Survey

Exit

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Custom Page

Datamodel Title Text

Come back soon!

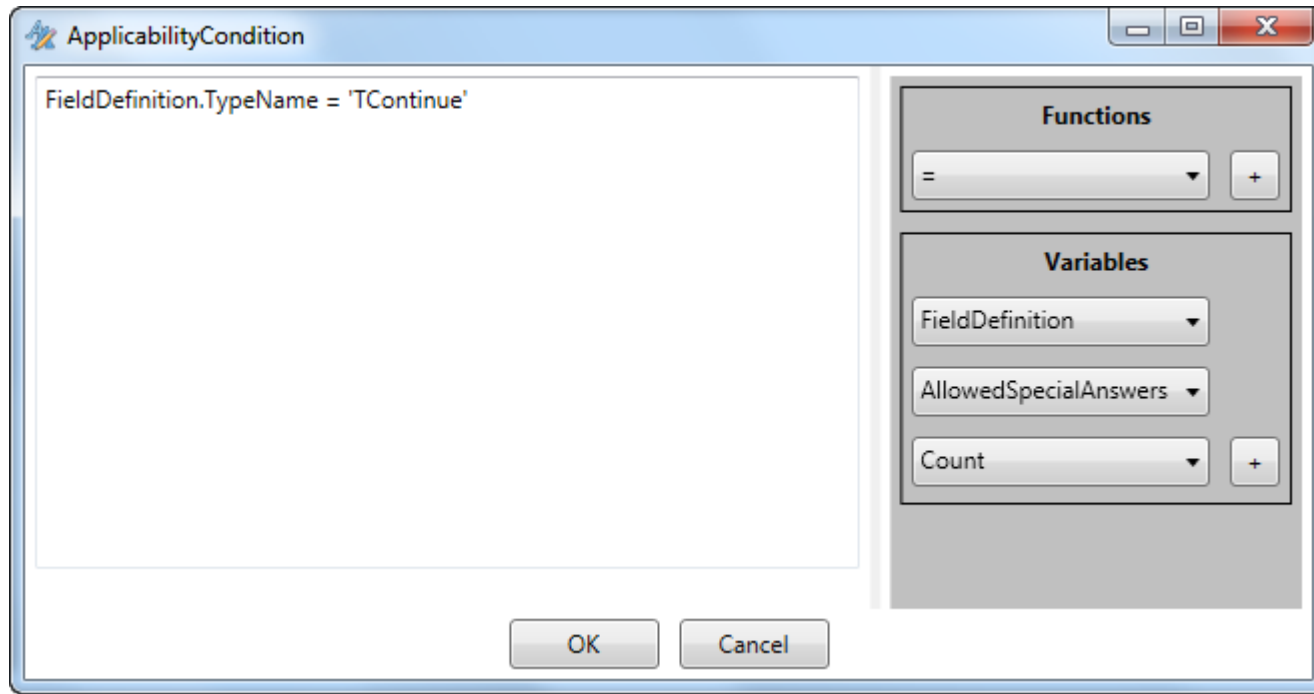
Your answers have been saved. Please return to the IMS to when you are ready to restart.

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Field Display Modifications

- Basic Modifications
 - Applicability condition for the QuestionTextOnly template using User Defined Types
 - Text Roles (i.e. Help, Watermark, ToolTip)
- More Technical Modifications
 - Using Parameters
 - Layout Sets on different devices

Applicability Condition



- The Applicability Condition expression shows that any question using the defined type TContinue will use the Field Pane template QuestionTextOnly.

Results of the Applicability Condition

Health Activities & Lifestyle Survey

The survey will continue from the beginning of the last section of the interview that was started. You may see a few questions that you have already answered, please answer them again.

Next>

Save and Continue Later

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Text Roles

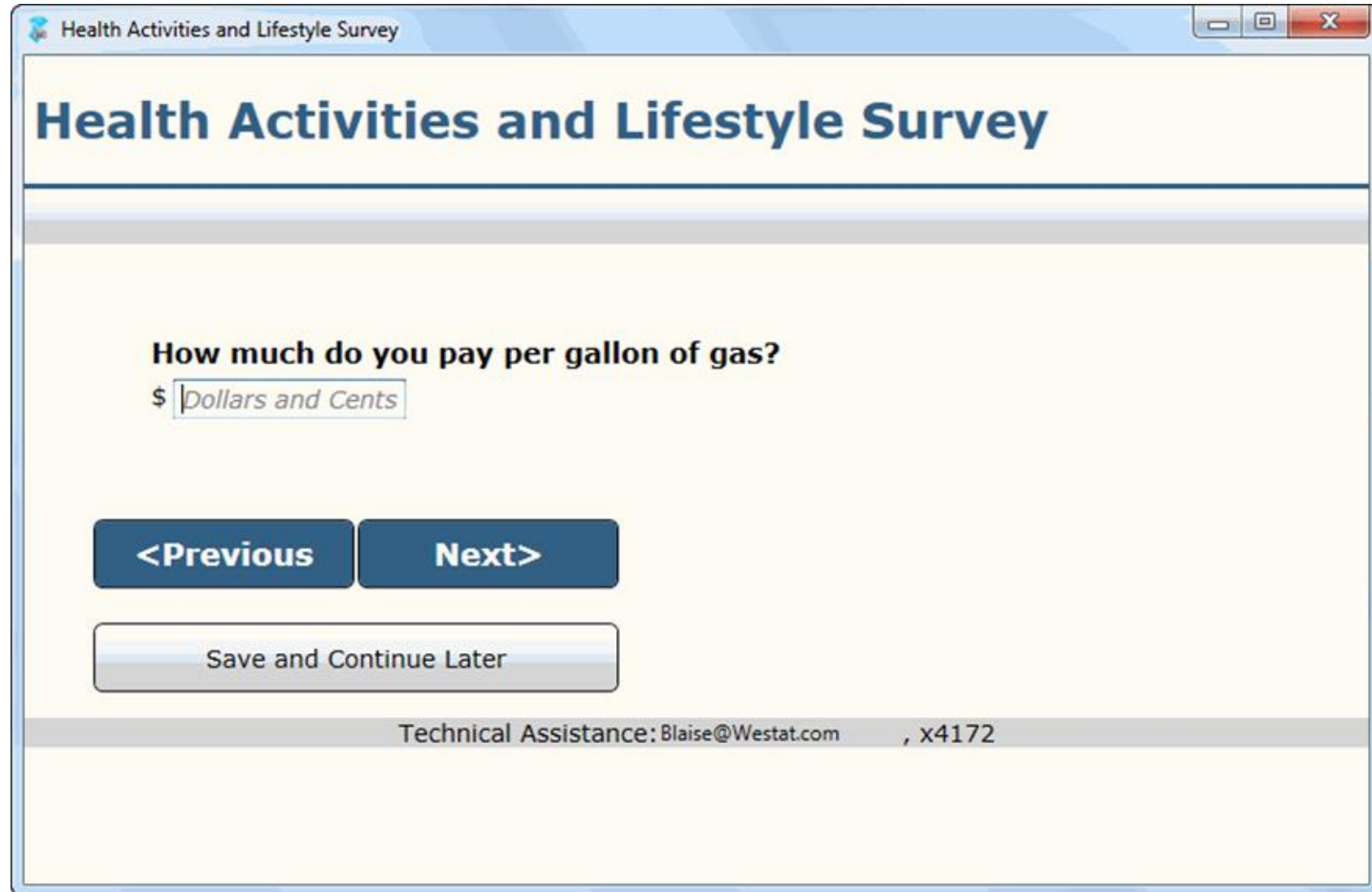
- The Watermark text role is part of the initial Resource database.
- Linked to the datamodel through the ROLES section

```
roles = Help      "The Help role provides a help button that the user can  
                  click to display question help text.",  
      Watermark  "The Watermark role provides a hint to the user as  
                  to what input elements are used for.",  
      ToolTip    "The ToolTip role provides a popup hint when the user  
                  hovers over a control."
```

- For the Gas question we added Watermark "Dollars and Cents".

```
Gas "How much do you pay per gallon of gas?"  
   WATERMARK "Dollars and Cents"  
   : TCurrencyReal
```

Result Using Watermark Role



Health Activities and Lifestyle Survey

Health Activities and Lifestyle Survey

How much do you pay per gallon of gas?

\$

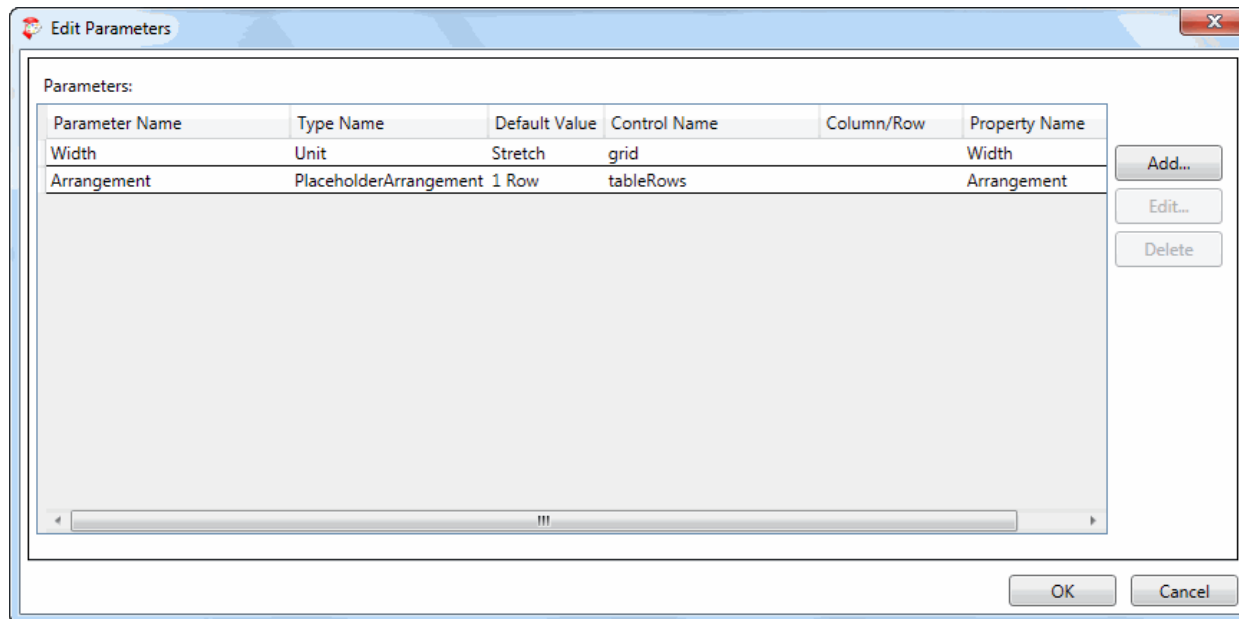
[<Previous](#) [Next>](#)

[Save and Continue Later](#)

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Using Parameters

- Needed to change the *Name* field layout from horizontal to vertical based on the device
- Add the Arrangement parameter



Results of Arrangement Parameter

What is your full name?

First	Middle	Last
<input type="text"/>	<input type="text"/>	<input type="text"/>

Layout instructions

Table Abreast

Parameters

Arrangement 1 Row

Width Auto

What is your full name?

First

Middle

Last

Layout instructions

Table Abreast

Parameters

Arrangement 3 Rows

Width Stretch

Displaying a Group

- Desktop or Tablet
 - Desktop/Tablet used standard template
- Smart Phone
 - Created new template from the standard Vertical field pane template
 - Added a row for the Group Question Text
 - Added Field Reference for the Group Question Text

Desktop/Tablet Result

Health Activities & Lifestyle Survey

Health Activities & Lifestyle Survey

Please rate how serious a problem it is to be diagnosed with the following medical conditions.

	Not serious at all	A little serious	Somewhat serious	Serious	Extremely serious
The common cold	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Epilepsy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Emphysema	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diabetes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Asthma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hypertension	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High cholesterol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lung Cancer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Influenza, or the flu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bronchitis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

<Previous Next>

Save and Continue Later

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Smart Phone Result

The screenshot shows a mobile survey interface. At the top, a blue header bar contains the text "Health Activities & Lifestyle Survey". Below the header, there are two navigation buttons: a left-pointing arrow on the left and a right-pointing arrow on the right. The main content area contains the instruction "Please rate how serious a problem it is to be diagnosed with the following medical conditions." followed by a grey box with the title "The common cold". Inside this box, there are five radio button options: "Not serious at all", "A little serious", "Somewhat serious", "Serious", and "Extremely serious". Below the grey box is a button labeled "Save and Continue Later".

Health Activities & Lifestyle Survey

< >

Please rate how serious a problem it is to be diagnosed with the following medical conditions.

The common cold

- Not serious at all
- A little serious
- Somewhat serious
- Serious
- Extremely serious

Save and Continue Later

Blaise App Integration Issues

- Device configuration, setup and security
 - protecting the device from unauthorized use
- Integration with a management system
 - for case deployment, tracking and auditing
- Data synchronization and encryption
 - transferring data from the device to the home office

When in Disconnected Mode

- The rules engine that runs on the device has the same functionality as the one that is used for Windows DEP and Internet.
- You will need an iOS device that is running iOS version 5.1.1 or higher. Android needs to be 2.1 or higher.
- In Server Manager you have to set Run mode to the disconnected or thick client. You find this setting at the Server Park level. The apps will then make available a download button that lets you download and install the survey files on your device.

When in Connected and Disconnected Mode

- Both the iOS and Android apps don't use a browser at all, they render the layout themselves directly on the device's screen.
- Client-side rules are implemented in the Blaise apps, to avoid server roundtrips.
- The default presentation on a mobile device for enumerations with a dropdown layout is a spinner.

Questions?

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