Rendering a Blaise 5 Survey on Different Devices

Richard Frey, Karen Robbins and Kathleen O’Reagan
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
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

Technical Assistance: Blaise@Westat.com, x4172
Datamodel Title Text

Come back soon!

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

Technical Assistance: Blaise@Westat.com, x4172
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
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

Technical Assistance: Blaise@Westat.com, x4172
Text Roles

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

<table>
<thead>
<tr>
<th>roles</th>
<th>Help</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&quot;The Help role provides a help button that the user can click to display question help text.&quot;</td>
</tr>
<tr>
<td></td>
<td>&quot;The Watermark role provides a hint to the user as to what input elements are used for.&quot;</td>
</tr>
<tr>
<td></td>
<td>&quot;The ToolTip role provides a popup hint when the user hovers over a control.&quot;</td>
</tr>
</tbody>
</table>

- 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

How much do you pay per gallon of gas?

$ Dollars and Cents

<Previous  Next>

Save and Continue Later

Technical Assistance: Blaise@Westat.com , x4172
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

Layout instructions

Table: Arrangement - 1 Row, Width - Auto

What is your full name?

First

Middle

Last

Layout instructions

Table: 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
### Health Activities & Lifestyle Survey

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

<table>
<thead>
<tr>
<th>Medical Condition</th>
<th>Not serious at all</th>
<th>A little serious</th>
<th>Somewhat serious</th>
<th>Serious</th>
<th>Extremely serious</th>
</tr>
</thead>
<tbody>
<tr>
<td>The common cold</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Epilepsy</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Emphysema</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Diabetes</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Asthma</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Hypertension</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>High cholesterol</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Lung Cancer</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Influenza, or the flu</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Bronchitis</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

<Previous  Next>  Save and Continue Later
Smart Phone Result

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?

- Richard Frey – Westat
- E-mail: Blaise@Westat.com