

Elements of Dashboard Design - Commands

Dashboard Design - Commands

Command strings can be assigned to all objects.

Three types of command properties:

- Command Strings
 - Command strings can be assigned to all objects except Controls.
- Action Commands
 - Action commands can only be assigned to Controls.
- Threshold Commands
 - Threshold commands can be assigned to objects found on the General tab that are labeled either discrete dynamic or range dynamic.

System Commands

- Execute DOS/UNIX Shell Command
- Execute URL (e.g., cgi scripts)
- Open URL in Browser (invoke web pages)
- Drill Down
- Play Audio File
- Set Substitution
- Send Email
- SNMP Traps

Data Source Specific Commands

- Hawk Microagent methods
- TIBCO Rendezvous messages
- TIBCO EMS Message (topic)
- JMX Mbeans
- SQL commands

Exercises

Ex 1: Create a button that will invoke a browser URL (e.g., <http://www.google.com>)

1. In the builder, create an label object from “General” palette
2. Right-click on Interaction:Command property and attach to Define Command>System Command>Open Browser
3. Type <http://www.google.com> for the URL Address
4. Save the display

Exercises

Ex 2: Modify Ex 1 so that the button will invoke any URL as entered by the user

1. In the same display as Ex 1, add a control text-edit control
2. Tools>Variables
3. Define \$myURL as a variable. Assign it an initial value.
4. Select the text-edit control and attach Data:varToSet property to the variable \$myURL
5. Attach Data:valueString to \$myURL
6. Click on the button from Ex 1 and double-click on Interaction:Command property
7. For the URL Address, type in \$myURL
8. For Label:label property of the button, attach to variable \$myURL
9. Save display

Exercises

Ex 3: Add a button that executes a command via JMX

1. Perform the steps in Ex 1
2. Add a Rectangle Label to the display
3. Set the Label property to “Add Hawk”
4. Right click the property value field for the command property (Interaction category) and select Define Command -> JMX
5. The Define JMX Command window appears
6. Set Connection to samplejmxapp
7. Set MBean Name to SampleJmxApp:name=Manager
8. Set Method(s)/Attributes(s) to addHawk
9. Double-click on the Add Hawk label. A new hawk appears in the sample JMX application, and the table in the builder adds a row for the new hawk.
10. Note that although the sample JMX application can add gulls to its display, the addGull command is not available via JMX.