



IBM Software Group

WebSphere Commerce V7

Mobile commerce store administration



@business on demand.

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This presentation covers administration tasks to enable the mobile commerce store.

Goals

- Understand basic enablement steps
- Understand device dependent support issues



The goals of this presentation are to understand the basic enablement steps and to understand the device dependent support issues.

Agenda

- Enabling mobile store pages
- Mobile device simulators
- Adding new mobile devices



The agenda is to enable the mobile store pages, review the function of mobile device simulators, and to review how to add new devices.

Enabling mobile capabilities on starter store

- Publish MadisonsMobile.sar add-on store archive
 - Creates an alternate user interface for the Madisons store
 - Adds directory of mobile optimized JSP™ files
 - Establishes new Struts mappings

The screenshot displays the 'Store Archives' section of the IBM Mobile Commerce Store Administration console. On the left, there is a 'Store Archives' panel with a 'View' dropdown set to 'Add On Feature' and '1 item' listed below. A table shows the 'Customer facing store' and 'Catalog asset store' both set to 'Madisons'. On the right, a file tree shows the directory structure for the 'Madisons' store, including folders for 'css', 'images', 'include', 'javascript', 'Messages', and 'mobile', along with various JSP files like 'GenericError.jsp', 'index.jsp', and 'mobileHome.jsp'.

Name	Value
Customer facing store	Madisons
Catalog asset store	Madisons

Enabling the mobile capabilities of the Madisons starter store requires that you publish an add-on feature to the standard Madisons store. You do this through the administrative console by publishing a store archive called MadisonsMobile.sar. This step creates an alternate user interface to the Madisons store. The alternate interface consists of a set of mobile optimized JSP files and new Struts mappings for those files.

Note that publishing this add-on feature does not create a new starter store. The add-on only adds an alternate interface to the same store.

Target devices

- Tier-1 smart phones with resolution of 240*320 and higher
- Phone platforms
 - ▶ iPhone
 - ▶ Blackberry
 - ▶ Windows Mobile®
 - ▶ Nokia S60/N97
 - ▶ Android



The support strategy is to target the mobile optimized pages for shoppers with tier 1 smart phones that have a minimum screen size of 240 by 320 pixels.

The Madisons Mobile pages have been tested with these mobile phone platforms: iPhone, Blackberry, Windows Mobile, Nokia S60/N97, and Android.

Mobile phone simulators

- Internal mobile Web browsers render content slightly differently from desktop browsers
- Repeatable and reliable store front testing done with mobile device simulators
- Cannot be used to receive SMS (mobile text) messages



The Web browser embedded in a mobile device might render the content slightly differently than that of a desktop browser. The screen size of the mobile device also places practical limitations on the size of a mobile store page. For these reasons, a developer should test any store page customizations on all the supported devices. The most repeatable and reliable way to do this is to perform testing on a mobile device simulator instead of testing the real device. These simulators are good for testing the Web browser functions of the store, but cannot be used to receive SMS mobile text messages originating from the WebSphere® Commerce server.

Mobile phone simulators

- Simulators to download

- ▶ Windows Mobile 6.1.4

- <http://www.microsoft.com/downloads/details.aspx?FamilyId=1A7A6B52-F89E-4354-84CE-5D19C204498A&displaylang=en>

- ▶ Nokia

- http://www.forum.nokia.com/info/sw.nokia.com/id/ec866fab-4b76-49f6-b5a5-af0631419e9c/S60_All_in_One_SDKs.html

- ▶ RIM BlackBerry

- <http://www.blackberry.com/developers/downloads/simulators/index.shtml>

- ▶ iPhone

- <http://developer.apple.com/iPhone/program/download.html>

- ▶ Android

- <http://www.android.com/>



This slide gives you links to download mobile device simulators for each of the supported device platforms.

Routing to mobile specific store pages

- Device independent routing to mobile pages
 - ▶ Standard Madisons starter store
`http://localhost/webapp/wcs/stores/Madisons/index.jsp`
 - ▶ Add **mobile** to home URL
`http://localhost/webapp/wcs/stores/Madisons/mobile/index.jsp`
- Device dependent switching to mobile pages
 - ▶ Device information in HTTP header parsed by Web module filter
 - ▶ Device match causes Struts forwarding to specific pages



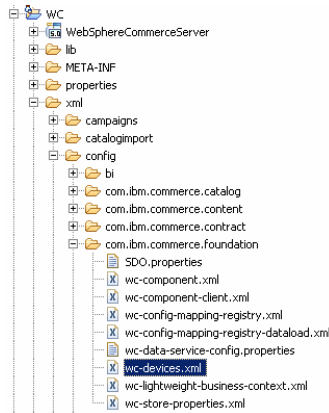
You can access the mobile store pages in one of two ways. The most straightforward way is to use a mobile specific URL to access the mobile enabled store pages. This URL works regardless of which kind of browser or which kind of device you have. For the Madisons starter store, add the directory name **mobile** to the URL as shown in the slide.

An alternate way to access the mobile store pages is to use device dependent switching. This method relies on the contents of the HTTP header to contain device identifying information that all embedded mobile browsers insert. The HTTP header is parsed by a mobile store Web module filter. The filter matches the header information against lists of pre-defined strings and uses Struts forwarding when a match is found.

Device specific routing

▪ Device configuration file

WC/xml/config/com.ibm.commerce.foundation/wc-devices.xml



```
<_config:DeviceGroup internalID="-11" channelID="-6" >
  <_config:Device name="BlackBerry Bold 9000"
    userAgentPattern="BlackBerry9000.*" />
  <_config:Device name="BlackBerry Storm 9530"
    userAgentPattern="BlackBerry9500.*" />
  <_config:Device name="BlackBerry Curve 8320"
    userAgentPattern="BlackBerry8320.*" />
  <_config:Device name="Apple iPhone"
    userAgentPattern=".*iPhone.*" />
  <_config:Device name="HTC S740"
    userAgentPattern=".*MSIEMobile.*" />
  <_config:Device name="Nokia S60"
    userAgentPattern=".*SymbianOS.*Series60/3.1.*Nokia3250.*" />
  <_config:Device name="Nokia N97"
    userAgentPattern=".*SymbianOS.*Series60/5.0.*Nokia3250.*" />
</_config:DeviceGroup>
```

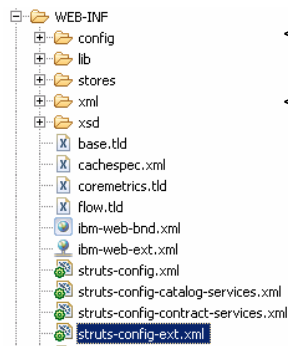
The device string lists are found in the device configuration file which can be located using the path shown in the slide.

The file contains lists of device names and patterns to match, along with an internalID to assign for that matching device group.

The internalID is used by Struts, which is described in the next slide.

Device specific routing

- Struts-config-ext.xml
Stores/WebContent/WEB-INF/struts-config-ext.xml
 - ▶ Forwarding based on internalID



```
<!-- Main StoreView redirect to mobile commerce, deviceID=-11 -->  
<forward className="com.ibm.commerce.struts.ECActionForward"  
name="StoreView/10051/-11" path="/mobile/mobileHome.jsp">  
</forward>
```

↑
internalID="-11"

Struts uses the file path shown in the slide. The file contains forward directives which pertain to mobile store pages. The Struts view name has the internalID encoded as the third component. Any view that has a matching value of -11 for the third component of the view name is intended to forward the request to the specified JSP file.

Customizing device specific routing

- **Create**
WC/xml/config/com.ibm.commerce.foundation-ext
- **Modify wc-devices.xml to override default devices**



The first step to add your own device to the device matching logic is to create a new directory as shown in the slide.

Then copy the wc-devices.xml file to the new directory and add new lines to match your new device types.

Summary

- Enabling mobile store pages
- Mobile device simulators
- Adding new mobile devices



This presentation showed you how to enable the mobile store pages, reviewed the function of mobile device simulators, and reviewed how to add new devices.

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