



Jetspeed-2 Capability Components v.2.1.2

Project Documentation

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Capabilities Overview

Jetspeed-2 capabilities provides a mechanism for mapping the client used to access Jetspeed-2 to media types for page rendering.

Capabilities Definitions

The Jetspeed-2 capability engine maps clients to media types to mime types. Here are some more detailed definitions:

- **Clients:** The application that initiates a request to the Jetspeed-2 portal engine. Jetspeed-2 uses the `User-Agent` to determine the client that initiates a request.
- **Media Type:** The type of media requesting the content (HTML, WML, etc.). Content in Jetspeed-2 can be requested by different type of devices through different media.
- **Mime Type:** The type of content being requested.

Jetspeed-2 works with the following media types:

Name	Character Set	Description
html	UTF-8	Rich HTML for HTML 4.0 compliant browsers
wml	UTF-8	Format for mobile phones and PDAs compatible with WML 1.1
vxml	UTF-8	Format suitable for use with an audio VoiceXML server
xml		XML 1.0
xhtml-basic	UTF-8	XHTML Basic used in WAP devices

Jetspeed-2 is configured to recognize the following clients:

Client	User Agent Pattern	Manufacturer	Preferred Mime Type
ie5	.*MSIE 5.*	Microsoft	html
ie6	.*MSIE 6.*	Microsoft	html
ns4	.*Mozilla/4.*	Netscape	html
mozilla	.*Mozilla/5.*	Mozilla	html
lynx	Lynx.*	GNU	html

Client	User Agent Pattern	Manufacturer	Preferred Mime Type
opera7	.*Opera/7.*	Opera	html
ie5mac	.*MSIE 5.*Mac.*	Microsoft	html
safari	.*Mac.*Safari.*	Apple	html
xhtml-basic	DoCoMo/2.0.* KDDI-. *UP\Browser.* N/PHONE/5.0.* Vodafone/1.0/*	N/A	xhtml
agentxml	agentxml/1.0.*	N/A	xml
nokia_generic	Nokia.*	Nokia	wml
up	UP.* . *UP\Browser.*	United Planet	wml
sonyericsson	Ercis.* SonyE.*	SonyEricsson	wml
wapalizer	Wapalizer.*	Wapalizer	wml
klondike	Klondike.*	Klondike	wml
wml_generic	.*WML.* . *WAP.* . *Wap.* . *wml.*	N/A	wml
vxml_generic	.*VoiceXML.*	N/A	vxml
nuance	Nuance.*	Nuance	vxml

Capabilities and Content Rendering

The `media-type` is used to locate the appropriate decorations template for the given `media-type`. See the [portal design guide](#) for more information.

Capabilities Implementation

The Capabilities component derive a `CapabilityMap` from the information provided by the `User-Agent` request header:

```
cm = capabilities.getCapabilityMap(agent);
```

This operation occurs at the very beginning of Jetspeed-2 request pipeline processing. Once the `CapabilityMap` is retrieved, it is added to the `Jetspeed-2` `org.apache.jetspeed.request.RequestContext` and made available to the portal engine for processing the request.

The two pictures below describes the Capabilities interfaces and the relational database model backing the implementation.



