

# Host-Selector in Cocoon (2.1 legacy document)

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**Warning:**

This document was copied as is from the Cocoon 2.1 documentation, but has not yet been fully reviewed or moved to its new home.

## 1. HostSelector

NAME	host
WHAT	The HostSelector component is used to select appropriate sitemap processing depending on Host header value.
TYPE	Selector, Sitemap Component
BLOCK	Core
CLASS	org.apache.cocoon.selection.HostSelector
SINCE	Cocoon 2.0
CACHEABLE	not applicable

## 2. Description

The HostSelector tests the Host header field from the request against the test attribute of the selectors when clause.

## 3. Usage

The HostSelector allows to define host specific sitemap processing. This way Cocoon can do multi-homed sitemap processing.

### 3.1. Sitemap pipeline examples

The snippet below uses a HostSelector named host, and tests against symbolic host-sites which are configured in the host selector section.

```
<map:select type="host"> <map:when test="uk-site"> .... </map:when> <map:when  
test="de-site"> ... </map:when> ... <map:otherwise> ... </map:otherwise> </map:select>
```

### 3.2. Sitemap component configuration example

The snippet below declares a HostSelector defining symbolic host-site names for some host domains.

```
<map:selectors> <map:selector name="host"  
src="org.apache.cocoon.selection.HostSelector" logger="sitemap.selector.host" <host  
name="uk-site" value="foo.bar.uk"/> ... <host name="de-site" value="foo.bar.de"/> <host  
name="us-site" value="foo.bar.com"/> </map:selector> ... </map:selectors>
```

### 3.3. Configuration

The configuration section of HostSelector specifies a mapping from host strings to symbolic host-site names.

Each host element specifies a name attribute holding the symbolic host-site name used in the test attribute expression. The attribute name contains a matchable substring of some real host header

values.

It is allowed to specify for a host name more than one entry. This way a symbolic host-site name is matched by different host header substrings. The snippet belows will yield true for test="central-europe" if the host header contains foo.bar.cz, foo.bar.at, or foo.bar.hu.

```
... <host name="central-europe" value="foo.bar.cz"/> <host name="central-europe"
value="foo.bar.at"/> <host name="central-europe" value="foo.bar.uk"/> ...
```

### 3.4. Setup

Setting up a HostSelector includes choosing the <map:when> test expressions and a optional <map:otherwise> clause.

The test attribute of the <map:when> clause must match a host attribute name value. The value of the test attribute in a <map:when> clause must be declared in a host name attribute.

### 3.5. Effect on Object Model and Sitemap Parameters

The HostSelector has no side effects on the object model or any sitemap parameters.

## 4. Bugs/Caveats

The HostSelector adds the response header attribute Vary having value Host indicating that the response differ for different hosts. This information is particularly meaningful for a http-proxy server.

## 5. History

28-12-02: initial creation

## 6. See also

A general documentation about selectors is available at [Matchers and Selectors](#).

For a detailed Host header documentation see [RFC 2068](#), especially if Cocoon's run time environment is an http servlet environment.

## 1. Comments

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