

Correcting IIS 404 Page Not Found for URLs with ;JSESSIONID

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When using ColdFusion MX while J2EE session variables are enabled, as defined in the ColdFusion Administrator, the session token `jsessionId` will be used to maintain state. If the application has planned for the possibility that clientside cookies are disabled for some users of the web application, then the application may have to use `URLSessionFormat()` to encode links within the application to maintain state by passing the session token in the URL. If so, the link URL's will have a semicolon delimited parameter appended to the url, in the format `page.cfm;jsessionId=1234`, for example. With the use of the semicolon in this manner, the `jsessionId` parameter is becomes part of the request path, not part of the request query string. Although this means of appending the `jsessionId` into the URL is a J2EE standard, this URL format may confuse some web servers, including Microsoft IIS.

Microsoft IIS may report a 404 error for Page Not Found if the `;jsessionid` parameter appears in the request URL. When using ColdFusion MX on JRun this can be corrected by setting the `ignoresuffixmap` property to `false` in the JRun connector stub configuration file `jrun.ini`. This file is typically found at the location `{cfmx_home}/runtime/lib/wsconfig/1/jrun.ini` or `{jrun_home}/lib/wsconfig/1/jrun.ini`. By setting this property to `false`, the JRun ISAPI filter will begin to match the URL for known extensions that should be handled by ColdFusion/JRun including `*.cfm` and `*.jsp`. When the JRun ISAPI filter matches the extension in a request it will pass the request to the JRun server without letting IIS further parse the URL for extension mapping.

Here is an example from the connector log of JRun ISAPI filter matching a request by the `cfm` extension, and properly handling the `;jsessionid` parameter for the session:

```
2004-07-14 11:57:14 jrISAPI[filter:1216] In filter: notification = 0x00004000
2004-07-14 11:57:14 jrISAPI[filter:1216] JRun Filter got url:
'/test.cfm;jsessionId=08301521611089820628281'
2004-07-14 11:57:14 jrISAPI[filter:1216] HOST: serat03:90
2004-07-14 11:57:14 jrISAPI[filter:1216] filtering
/test.cfm;jsessionId=08301521611089820628281 (/test.cfm) HOST=serat03:90
2004-07-14 11:57:14 jrISAPI[filter:1216] filterRequest: matched *.CFM
2004-07-14 11:57:14 jrISAPI[filter:1216] JRun Filter mapped url to:
'/JRunScripts/jrun.dll/test.cfm;jsessionId=08301521611089820628281'.
```

In contrast, when the `jrun.ini` property `ignoresuffixmap` is set to `true`, the JRun ISAPI filter will let IIS perform the extension matching. Here is an example from the connector log showing that JRun ISAPI filter has let the `.cfm` URL pass by, leaving IIS to make the match:

```
2004-07-14 11:50:15 jrISAPI[filter:1216] In filter notification = 0x00004000
2004-07-14 11:50:15 jrISAPI[filter:1216] JRun Filter got url
test.cfm;jsessionId=083053361089820211562'
```

```
2004-07-14 115015 jrISAPI[filter1216] HOST serat0390
2004-07-14 115015 jrISAPI[filter1216] filtering test.cfm;jsessionid=083053361089820211562
(test.cfm) HOST=serat0390
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .cfml
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .CFML
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .cfm
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .cfc
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .CFM
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .CFC
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .cfml
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .CFML
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .jws
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .CFC
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .jst
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .CFM
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .cfc
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .jsp
2004-07-14 115015 jrISAPI[filter1216] filtering ignored suffix .cfm
2004-07-14 115015 jrISAPI[filter1216] filterRequest no match
```

In this last case, the JRun ISAPI filter let IIS perform the extension mapping and IIS failed to recognize the .cfm extension in the page request /test.cfm;jsessionid=083053361089820211562 because it couldn't distinguish .cfm from .cfm;jsessionid.