

Testcases for the HttpService in the OSGi Specification

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TESTCASES HTTP OSGI

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General

Setup

The test cases are designed to be used with the test suite developed by Ericsson. The output of a test case will be logged to a file and compared to reference output.

The test cases require two instances of the framework (currently Gatespace's reference implementation). The first one running the test Director (Ericsson) and the test cases and the second running the Target bundle (Ericsson) and the HttpService to be tested.

Harness framework bundles	Framework under test bundles
log	log
servlet	servlet
http 8080 (for controlling the tests)	http 80 (the tested service)
director	target
(test cases dynamically installed)	(test bundles dynamically installed)

Packaging

The test cases are packaged in

```
org.osgi.test.cases.http
```

Necessary test bundles and servlets are contained in the sub-packages

```
org.osgi.test.cases.http.tb1
org.osgi.test.cases.http.tb2
```

In most cases the test bundle registers the resource and tries to access it afterwards to test the http service.

Testcases

The following is a description of the test cases and in which test case implementation they are covered (within brackets).

Registration behaviour

Simple servlet registration (TC1)

The normal operation of a servlet. Simple name and behaviour of servlet and access verification.

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Simple servlet unregistration (TC2)

Unregistration of previously registered simple servlet and access verification.

Overlapping registration paths (TC3)

Registration of two servlets with paths /aa and /aa/bb respectively.

Unregistration with path overlap (TC4)

Unregistration of the servlet with the overlapping path.

Uninstallation of source bundle (TC5)

The bundle registering the servlet is uninstalled. Verify that servlet is unregistered.

Long registration name (TC6)

Servlet is registered under very long name (260 characters).

Null servlet (TC7)

Attempt to register null servlet.

Case sensitivity (TC8)

Registration of two servlets NAME and name under paths /AA and /aa etc.

javax.servlet.Servlet registration (TC9)

Registration of a javax.servlet.Servlet (not javax.servlet.http.HttpServlet)

Register resources (TC10)

Normal sharing of resources such as text files and images

Multiple registrations (TC11)

Attempt to register resources already registered

Multiple unregistrations (TC12)

Attempt to unregister already unregistered resource.

Ending slash (TC13)

Attempt to register resource under name ending with slash.

Root Alias slash (TC14) new

Attempt to register resource with root alias slash.

Servlet registration using default HttpContext (TC15) new

Attempt to register a servlet with HttpContext as null.

Register resources using default HttpContext (TC16) new

Attempt to register a resource with default HttpContext.

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Register Servlet with Multiple aliases (TC17) new

Attempt to register servlet with two different aliases, a ServletException is expected.

Runtime behaviour

Empty doGet (TC50)

Register servlet with empty doGet() method.

Security (TC51)

Verification of statements under handleSecurity().

Exceptions (TC52)

Servlet throws exception in doGet().

Large output (TC53)

Servlet returns 4 MB file.

Web server version(TC54) deleted for new release

Query the http service for its version.

Hang request (TC55)

Block in request. And check that other requests can be handled.

Large URL (TC56)

Access of servlet with long parameter values.

Odd URL (TC57)

Access URL with parameter values like (&&, a=&, %, space)

Multiple names in URL(TC58a) Updated

Access URL with different values for the same parameter like (abc=1&abc=2...), use of getParameter()

Multiple names in URL(TC58b) New

Access URL with different values for the same parameter like (abc=1&abc=2...), use of getParameterValues()

MIME types (TC59) Updated, graphics 2D no longer used.

Verification of the most common MIME types (text/html, text/plain, image/jpeg).

Resource name (TC60)

Verification that resource names are constructed correctly.

Authentication (TC61) New

Call HttpServletRequest.getAuthType and HttpServletRequest.getRemoteUser