

## **Stargate project extension**

# **Static Repository Gateway Branding and Customisation**

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# 1 Introduction

This document, produced as part of an extension to the Stargate project, is a guide to customising the web interfaces of the Static Repository Gateway software - 'srepod'. As such it supports the branding of the installed gateway to reflect the identity of the service provider – the default installation comes with the software developer's branding (i.e. Open Archives at the Los Alamos National Laboratory: LANL).

As will be explored in this document the interface to the Static Repository Gateway is highly customisable; it allows a great deal of flexibility in both site and page design.

As noted in the accompanying installation guide the software is still under development and should be considered as an early beta version. Consequently, there are likely to be ongoing changes in the default interface provided with the software. Such changes are however, not likely to significantly impact the applicability of the guidance in this document as the functionality that the software requires the interface to provide is independent of the interface design and the interface remains webpage-based.

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Stargate Project Manager  
January 2007

## 2 Customisable webpages

The static repository gateway software (available from <https://sourceforge.net/projects/srepod/>) includes two XHTML files which provide webpage-based interfaces for each of the functions. These files are:

- registry.html (in version 2.1.6 of the software a different version of this file is also included, submit.html)
- terminator.html (in version 2.1.6 of the software a different version of this file is also included, terminate.html)

**Note:** the alternate versions of these files illustrate the extent to which registry.html and terminator.html can be customised. For the purposes of this document, only the original versions (i.e. those existing in the 2.1.5 release of the software) will be referenced. In practice, it does not matter what filenames are used in any specific gateway service, provided they meet the mandatory elements described in this document.

See 6.3 of the accompanying installation documentation. As noted, these files can, and may need to, be edited.

A third XHTML file is used to display processing messages from the service:

- head.html
- foot.html

These files can also be edited for branding and customisation purposes, but require special consideration.

## 2.1 Registry.html

### 2.1.1 Primary function

The primary function of this page is to register a static repository with the gateway.

### 2.1.2 Minimal functionality

The basic, minimal functionality of registry.html is to:

- Accept user input of the URL of the static repository.
- Accept user input of the email address of the static repository administrator.
- Transmit this information to the static repository gateway service.

This is achieved using an HTML form with two text input controls and a submit control.

### 2.1.3 Required form elements

The required elements of registry.html are confined to the HTML form:

- The *action* attribute of the *form* element, which must contain the value `"/cgi-bin/gateway/registry.cgi"`.
- The *method* attribute of the *form* element, which must contain the value `"get"`.
- The *type* attribute of the two *input* elements for the static repository URL and the static repository administrator email, which must contain the value `"text"`.
- The *name* attribute of the *input* element for the static repository URL, which must contain the value `"url"`.
- The *name* attribute of the *input* element for the static repository administrator email, which must contain the value `"email"`.
- The *type* attribute of the *input* element for the submit control, which must contain the value `"submit"`.
- A label/prompt for each of the two *input* elements for the static repository URL and the static repository administrator email. There are two distinct ways of providing a prompt: as explicit text adjacent to the element (recommended), or as an initial default value within the element box which must be overwritten with the correct value by the user.

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Required elements for static repository gateway registration
    form</title>
    <meta http-equiv="Content-Type" content="text/html;
    charset=utf-8" />
  </head>
  <body>
    <form action="/cgi-bin/gateway/registry.cgi " method="get">
      Repository URL <input type="text" name="url" />
      Administrator email <input type="text" name="email" />
      <input type="submit" name="submit" />
    </form>
  </body>
</html>
```

## 2.1.4 Recommended form elements

In addition the following elements are recommended for the HTML form:

- The *value* attribute of the two *input* elements for the static repository URL and the static repository administrator email, with an empty value "". This is a default in standard browsers, but it is good practice to make it explicit.
- The *size* attribute of the two *input* elements for the static repository URL and the static repository administrator email, with the value "60". Standard browsers use a default size, but it is good practice to make it explicit.
- The *value* attribute of the *input* element for the submit control, with the value "Submit". The default value in standard browsers may be ambiguous or misleading.
- A prompt for the *input* element for the submit control, or for the form as a whole.

Example (using the values supplied with the static repository gateway software):

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Recommended elements for static repository gateway
    registration form</title>
    <meta http-equiv="Content-Type" content="text/html;
    charset=utf-8" />
  </head>
```

```

</head>
<body>
  <p>You need to fill out the fields below to register your static
  repository file at our gateway:</p>
  <form action="/cgi-bin/gateway/registry.cgi " method="get">
    <p>The network-location (URL) of your OAI Static Repository
    <input type="text" name="url" value="" size="60" /></p>
    <p>The email address of the administrator of your OAI Static
  Repository
    <input type="text" name="email" value="" size="60" /></p>
    <p><input type="submit" name="submit" value="Submit" /></p>
  </form>
</body>
</html>

```

### 2.1.5 Customising recommended form elements

The values and contents of the recommended elements can be customised for local services:

- The *value* attribute of the two *input* elements for the static repository URL and the static repository administrator email, if not empty, displays within the input text box, and can be used:
  - As an "inline" prompt, which the user must overwrite with the correct input.
  - As default input, which the user augments or amends as required.

This is generally not good practice, as mistakes can be made if the user does not overwrite or amend the value correctly.

- The *size* attribute of the two *input* elements for the static repository URL and the static repository administrator email can be given any numeric value. The number determines the display length of the input text box only; it does not restrict the length of the user input.
- The labels and prompts for the input elements and form can contain any text and be formatted for display using table, paragraph or CSS elements.

Example (from the customised STARGATE gateway, using CSS):

```

<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>STARGATE: Static Repository Gateway for small
    publishers</title>
    <meta http-equiv="Content-Type" content="text/html;
    charset=utf-8" />
    <link href="stargate.css" rel="stylesheet" type="text/css" />

```

```

</head>
<body>
  <h2>Registration</h2>
  <div class="srregistration">
    <div class="inputprompt">
      <p>To register a <em>Static Repository</em> with this Gateway,
        complete all parts of this form and click the Submit button.
        Please ensure that the repository complies with the technical
        requirements given below.</p>
    </div>
    <form action="/cgi-bin/gateway/registry.cgi" method="get">
      <div class="inputlabel">
        URL of the Repository:
      </div>
      <div class="inputcontrol">
        <input type="text" name="url" value="" size="60" />
      </div>
      <div class="inputlabel">
        Email of the administrator of the Repository:
      </div>
      <div class="inputcontrol">
        <input type="text" name="email" value="" size="60" />
      </div>
      <div class="inputsubmit">
        <input type="submit" value="Submit" />
      </div>
    </form>
  </div>
</body>
</html>

```

## 2.1.6 Optional functionality

There are several optional functions which might be included in registry.html.

### 2.1.6.1 Statement of technical compliance conditions

A statement of static repository compliance requirements is recommended.

Requirements should cover conformance with:

- The technical specification for a static repository.
- The technical requirements of the gateway software for the static repository URL, including file extension, character set, and file size.
- The technical requirements of the gateway service for the <baseURL> element of the static repository.

The first two of these are fixed with respect to the srepod software, and are explicitly stated in the visible content of registry.html.

The last conformance area depends on the URL of the gateway service, and is therefore different for each service. An example of <baseURL> conformance is given in a comment embedded in registry.html, but should not be used without suitable amendment.

The customised example from STARGATE given below contains a recommended version of technical compliance conditions.

Registration is likely to fail if the static repository being registered does not meet these requirements, frustrating and wasting the time of the user.

This information is technical in nature, requiring a similar level of skill to that necessary for creating a static repository. It is therefore unlikely to be a barrier to use of the gateway service.

#### **2.1.6.2 Navigation to Termination page**

A link to and prompt for the Termination page (terminator.html) should be considered.

There are a number of ways of providing this function, including:

- An option in a navigation bar for the gateway service as a whole. This is the method used in the latest version of registry.html supplied with the srepod software.
- A distinct area of the page. This is the method used in the customised STARGATE gateway (and earlier versions of registry.html supplied with the srepod software).
- Embedded in the text of the page.

#### **2.1.6.3 Acknowledgement**

A statement of accreditation or acknowledgement of the developers of the Gateway software and service. This is good practice and conforms with guidelines for attribution in many open source licenses.

#### **2.1.6.4 Statement of version or date**

A statement of the version of the page or service, and/or the date the page was published or updated. This is good practice for version control, especially when services are being developed over time.

## 2.2 Terminator.html

### 2.2.1 Primary function

The primary function of this page is to de-register a static repository from the gateway.

### 2.2.2 Minimal functionality

The basic, minimal function of terminator.html is to:

- Accept user input of the URL of the registered static repository.
- Transmit this information to the static repository gateway service.

This is achieved using an HTML form with a text input control and a submit control.

### 2.2.3 Required form elements

The required elements of the page are confined to the HTML form:

- The *action* attribute of the *form* element, which must contain the value `"/cgi-bin/gateway/terminator.cgi"`.
- The *method* attribute of the *form* element, which must contain the value `"get"`.
- The *type* attribute of the *input* element for the static repository URL, which must contain the value `"text"`.
- The *name* attribute of the *input* element for the static repository URL, which must contain the value `"url"`.
- The *type* attribute of the *input* element for the submit control, which must contain the value `"submit"`.
- A label/prompt for each of the *input* element for the static repository URL.  
There are two distinct ways of providing a prompt: as explicit text adjacent to the element (recommended), or as an initial, default value within the element box which must be overwritten with the correct value by the user.

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
```

```

<title>Required elements for static repository gateway termination
  form</title>
<meta http-equiv="Content-Type" content="text/html;
  charset=utf-8" />
</head>
<body>
<form action="/cgi-bin/gateway/terminator.cgi " method="get">
  Repository URL <input type="text" name="url" />
  <input type="submit" name="submit" />
</form>
</body>
</html>

```

## 2.2.4 Recommended form elements

Recommended elements for the HTML form are:

- The *value* attribute of the *input* element for the static repository URL, with an empty value "". This is a default in standard browsers, but it is good practice to make it explicit.
- The *size* attribute of the *input* element for the static repository URL, with the value "60". Standard browsers use a default size, but it is good practice to make it explicit.
- The *value* attribute of the *input* element for the submit control, with the value "Submit". The default value in standard browsers may be ambiguous or misleading.
- A prompt for the *input* element for the submit control, or for the form as a whole.

Example (using the values supplied with the static repository gateway software):

```

<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Recommended elements for static repository gateway
  termination form</title>
<meta http-equiv="Content-Type" content="text/html;
  charset=utf-8" />
</head>
<body>
<p>We need the following information to terminate the
  intermediation of your OAI Static Repository via our Gateway:</p>
<form action="/cgi-bin/gateway/terminator.cgi" method="get">
<p>The network-location (URL) of your OAI Static Repository
  <input type="text" name="url" value="" size="60" /></p>
<p><input type="submit" name="submit" value="Submit" /></p>
</form>
</body>

```

</html>

## 2.2.5 Customising recommended form elements

The values and contents of the recommended elements can be customised for local services:

- The *value* attribute of the *input* element for the static repository, if not empty, displays within the input text box, and can be used:
  - As an "inline" prompt, which the user must overwrite with the correct input.
  - As default input, which the user augments or amends as required.This is generally not good practice, as mistakes can be made if the user does not overwrite or amend the value correctly.
- The *size* attribute of the *input* element for the static repository URL can be given any numeric value. The number determines the display length of the input text box only; it does not restrict the length of the user input.
- The labels and prompts for the input elements and form can contain any text and be formatted for display using table, paragraph or CSS elements.

Example (from the customised STARGATE gateway, using CSS):

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>STARGATE: Static Repository Gateway for small
      publishers</title>
    <meta http-equiv="Content-Type" content="text/html;
      charset=utf-8" />
    <link href="stargate.css" rel="stylesheet" type="text/css" />
  </head>
  <body>
    <h2>Termination</h2>
    <div class="srtermination">
      <div class="inputprompt">
        <p>To terminate the registration of a <em>static repository</em>
          with this Gateway and prevent it being harvested, complete all
          parts of this form and click the Submit button.</p>
      </div>
      <form action="/cgi-bin/gateway/terminator.cgi" method="get">
        <div class="inputlabel">
          URL of the Repository:
        </div>
        <div class="inputcontrol">
          <input type="text" name="url" value="" size="60" />
        </div>
      </form>
    </div>
  </body>
</html>
```

```
<div class="inputsubmit">
  <input type="submit" value="Submit" />
</div>
</form>
</div>
</body>
</html>
```

## 2.2.6 Optional functionality

There are several optional functions which might be added to the Termination page.

### 2.2.6.1 Navigation to Registration page

A link to and prompt for the Registration page (registry.html) should be considered.

There are a number of ways of providing this function, including:

- An option in a navigation bar for the gateway service as a whole. This is the method used in the latest version of terminator.html supplied with the srepod software.
- A distinct area of the page. This is the method used in the customised STARGATE gateway (and earlier versions of terminator.html supplied with the srepod software).
- Embedded in the text of the page.

### 2.2.6.2 Acknowledgement

A statement of accreditation or acknowledgement of the developers of the Gateway software and service. This is good practice and conforms with guidelines for attribution in many open source licenses.

### 2.2.6.3 Statement of version or date

A statement of the version of the page or service, and/or the date the page was published or updated. This is good practice for version control, especially when services are being developed over time.

## 2.3 Head.html and foot.html

Head.html is not a complete XHTML file, as it lacks closing tags for the <body> and <html> elements, and <table>, <tr> and <td> elements used to display a processing message.

The srepod software appends the processing message followed by the contents of foot.html, which contains the sequence of closing tags `</td></tr></table></body></html>`, before passing the completed XHTML page back to the Internet server for display in the client browser.

These files can be branded and customised in the same ways as described above for registry.html and terminator.html, bearing in mind that they must form a valid (X)HTML file when concatenated.

### 3 Gateway service homepage

Use of registry.html as the homepage of a static repository gateway service is recommended.

This is the simplest and most direct approach, emphasising that the principle function of the service is to register static repositories for harvesting by OAI-PMH.

If the registration function is embedded in a parent service offering additional functionality beyond registration and termination, then a higher-level homepage could be used. Additional functionality might include the listing of static repositories already registered (using the <friends> element), and additional information about the repositories such as numbers of records and collection-level descriptions.

#### 3.1 Page navigation

As noted, the latest download versions of registry.html and terminator.html are linked using a navigation bar. This approach is useful if the gateway service intends to offer additional functionality as noted above.

However, if only registration and termination functions are to be offered there will only be two options to place in the navigation bar (especially if the homepage is the registration page as recommended above), and the prompts and context for the functions will be lost. The customised STARGATE pages therefore avoid the use of a navigation bar, and use a distinct area in each page to provide a prompt and link to the other.

#### 3.2 Service branding

Optional methods for branding registry.html and terminator.html include:

- A version of the title of the Gateway service in the *title* element.
- An image of the Gateway service logo, or short text equivalent, at the top of the page.
- The title of the Gateway service at the top of the page.
- A statement welcoming users to the service, describing the scope, function, etc. of the service.
- An image of the logo of the organisation administering the Gateway service.

An example of a branded registry.html (from the customised STARGATE gateway, using CSS):

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>STARGATE: Static Repository Gateway for small
publishers</title>
    <meta http-equiv="Content-Type" content="text/html;
charset=utf-8" />
    <link href="stargate.css" rel="stylesheet" type="text/css" />
  </head>
  <body>
    <div class="header">
      <div class="headerlogo">
        <a href="http://cdlr.strath.ac.uk/stargate/" target="_blank">
          </a>
        </div>
      <div class="headertitle">
        <h1>Static Repository Gateway for small publishers</h1>
      </div>
    </div>
    <div class="srsgservice">
      <p><strong>Welcome!</strong> This service improves access to the
output of small publishers by allowing their bibliographic
records to be distributed to union catalogues and other metadata
aggregation services.</p>
      <p>This is achieved by allowing those services to harvest the
records using
      <a href=http://www.openarchives.org/oai/openarchivesprotocol.html
target="_blank">the Open Archives Initiative Protocol for
Metadata Harvesting</a> (OAI-PMH). The protocol requires the
records to use a specific format. This Gateway enables
harvesting of a file of such records called a <em>static
repository</em>, and it complies with the
      <a
href=http://www.openarchives.org/OAI/2.0/guidelines-static-
repository.htm target="_blank">Specification for an OAI Static
Repository and an OAI Static Repository Gateway</a>.</p>
    </div>
    <h2>Registration</h2>
    <div class="srregistration">
      <div class="inputprompt">
        <p>To register a <em>Static Repository</em> with this Gateway,
complete all parts of this form and click the Submit button.
Please ensure that the repository complies with the technical
requirements given below.</p>
      </div>
      <form action="/cgi-bin/gateway/registry.cgi" method="get">
        <div class="inputlabel">
          URL of the Repository:
        </div>
        <div class="inputcontrol">
          <input type="text" name="url" value="" size="60" />
        </div>
      </form>
    </div>
  </body>
</html>
```

```

<div class="inputlabel">
  Email of the administrator of the Repository:
</div>
<div class="inputcontrol">
  <input type="text" name="email" value="" size="60" />
</div>
<div class="inputsubmit">
  <input type="submit" value="Submit" />
</div>
</form>
</div>
<div class="srcompliance">
<h2>Technical requirements</h2>
<p>An OAI Static Repository can use this Gateway service if it
meets the following conditions:</p>
<ul>
<li>The Static Repository file <strong>must</strong> conform with
the <a href="http://www.openarchives.org/OAI/2.0/guidelines-
static-repository.htm" target="_blank">Specification for an OAI
Static Repository and an OAI Static Repository Gateway</a>.
<br />
Specifically:
<ul>
<li>The Static Repository file <strong>must</strong> validate
against <a href="http://www.openarchives.org/OAI/2.0/static-
repository.xsd">the XML schema specifying the structure of an OAI-PMH
Static Repository</a>.</li>
<li>The network-location of the Static Repository file
<strong>must</strong> be an HTTP address, i.e. the
network-location <strong>must</strong> start with
&quot;<span class="codesample">http://</span>&quot;.</li>
</ul>
</li>
<li>In addition, the Gateway imposes the following conditions:
<ul>
<li>The network-location of the Static Repository file
<strong>must</strong> have a suffix
&quot;<span class="codesample">.xml</span>&quot;; i.e. the
network-location <strong>must</strong> end on
&quot;<span class="codesample">.xml</span>&quot;.</li>
<li>The network-location of the Static Repository file
<strong>must only</strong> contain characters from the
following set:<br />
[<span class="codesample">a-z</span>]
[<span class="codesample">A-Z</span>]
[<span class="codesample">0-9</span>]
&quot;<span class="codesample">/</span>&quot;
&quot;<span class="codesample">+</span>&quot;
&quot;<span class="codesample">-</span>&quot;
&quot;<span class="codesample">%</span>&quot;
&quot;<span class="codesample">.</span>&quot;
&quot;<span class="codesample">:</span>&quot;
&quot;<span class="codesample">_</span>&quot;
&quot;<span class="codesample">~</span>&quot;.</li>
<li>The size of the OAI Static Repository <strong>must
not</strong> exceed 2 Mb.</li>
</ul>
</li>
<li>The baseURL element of any Static Repository file registered
at this gateway <strong>must</strong> conform to the pattern:
<br />

```

```

    &quot;<span class="codesample">http://</span>&quot;
    + &quot;<span class="codesample">stargate.cdrl.strath.ac.uk/cgi-
bin/gateway/gateway.cgi</span>&quot;
    + the network-location address of the file (without the HTTP
    prefix)<br />
    For example:
    <ul>
    <li>if the network-location of the Static Repository file is
    &quot;<span class="codesample">http://<em>mydomain.com/
mysrfile.xml</em></span>&quot;;
    the file <strong>must</strong> contain the element:<br />
    <span class="codesample">&lt;oai:baseURL&gt;<br />
    http://stargate.cdrl.strath.ac.uk/cgi-bin/gateway/
gateway.cgi/<em>mydomain.com/mysrfile.xml</em><br />
    &lt;/oai:baseURL&gt;</span></li>
    <li>if the network-location of the Static Repository file is
    &quot;<span class="codesample">http://<em>mydomain.com/
sr/mysrfile2.xml</em></span>&quot;;
    the file <strong>must</strong> contain the element:<br />
    <span class="codesample">&lt;oai:baseURL&gt;<br />
    http://stargate.cdrl.strath.ac.uk/cgi-bin/gateway/
gateway.cgi/<em>mydomain.com/sr/mysrfile2.xml</em><br />
    &lt;/oai:baseURL&gt;</span></li>
    </ul>
    </li>
    <li>The Static Repository file <strong>must not</strong> be
    registered with any other Gateway service.</li>
    </ul>
</div>
<div class="srterminationlink">
    <p>To prevent a Static Repository already registered with this
    Gateway service from being harvested, use the <a href="http://
stargate.cdrl.strath.ac.uk/gateway/terminate.html">
Termination</a> page.</p>
</div>
<div class="srgcredits">
    <p>The Stargate gateway was developed and is maintained by the
    <a href="http://cdlr.strath.ac.uk/" target="_blank">Centre
    for Digital Library Research</a> as part of the <a href="http://
stargate.cdrl.strath.ac.uk/stargatexhome.html">Stargate project
    extension.</a></p>
    <p>The software for this Gateway service was developed by Patrick
    Hochstenbach & Henry Jerez, in a project of the Prototyping
    Team of the
    <a href="http://library.lanl.gov/" target="_blank">Research
    Library of the Los Alamos National Laboratory</a>.</p>
</div>
<div class="trailer">
    <div class="trailerlogo">
    <a href="http://cdlr.strath.ac.uk/" target="_blank">
    </a>
    </div>
    <div class="trailerversion">
    This page last updated: 20 Dec 2006
    </div>
</div>
</body>
</html>

```

This file is rendered by Internet Explorer 7 as:

# STARGATE Static Repository Gateway for small publishers

**Welcome!** This service improves access to the output of small publishers by allowing their bibliographic records to be distributed to union catalogues and other metadata aggregation services.

This is achieved by allowing those services to harvest the records using the [Open Archives Initiative Protocol for Metadata Harvesting](#) (OAI-PMH). The protocol requires the records to use a specific format. This Gateway enables harvesting of a file of such records called a [static repository](#), and it complies with the [Specification for an OAI Static Repository](#) and an [OAI Static Repository Gateway](#).

## Registration

To register a [Static Repository](#) with this Gateway, complete all parts of this form and click the Submit button. Please ensure that the repository complies with the technical requirements given below.

URL of the Repository:

Email of the administrator of the Repository:

## Technical requirements

An OAI Static Repository can use this Gateway service if it meets the following conditions:

- The Static Repository file **must** conform with the [Specification for an OAI Static Repository](#) and an [OAI Static Repository Gateway](#).  
Specifically:
  - The Static Repository file **must** validate against the [XML schema specifying the structure of an OAI-PMH Static Repository](#).
  - The network-location of the Static Repository file **must** be an HTTP address, i.e. the network-location **must** start with "http://".
- In addition, the Gateway imposes the following conditions:
  - The network-location of the Static Repository file **must** have a suffix ".xml", i.e. the network-location **must** end on ".xml".
  - The network-location of the Static Repository file **must only** contain characters from the following set: [a-z] [A-Z] [0-9] "/" "+" "-" "\$" "." ":" ";" "\_" "~".
  - The size of the OAI Static Repository **must not** exceed 2 Mb.
- The baseURL element of any Static Repository file registered at this gateway **must** conform to the pattern: "http://" + "stargate.cdrl.strath.ac.uk/cgi-bin/gateway/gateway.cgi" + the network-location address of the file (without the HTTP prefix).  
For example:
  - if the network-location of the Static Repository file is "http://mydomain.com/myrfile.xml", the file **must** contain the element:

```
<oai:baseURL>
http://stargate.cdrl.strath.ac.uk/cgi-bin/gateway/gateway.cgi/mydomain.com/myrfile.xml
</oai:baseURL>
```
  - if the network-location of the Static Repository file is "http://mydomain.com/sr/myrfile2.xml", the file **must** contain the element:

```
<oai:baseURL>
http://stargate.cdrl.strath.ac.uk/cgi-
bin/gateway/gateway.cgi/mydomain.com/sr/myrfile2.xml
</oai:baseURL>
```
- The Static Repository file **must not** be registered with any other Gateway service.

To prevent a Static Repository already registered with this Gateway service from being harvested, use the [Termination](#) page.

*The Stargate gateway was developed and is maintained by the Centre for Digital Library Research as part of the Stargate project extension.*

*The software for this Gateway service was developed by Patrick Hochstenbach & Henry Jerez, in a project of the Prototyping Team of the Research Library of the Los Alamos National Laboratory.*



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The CSS file used for the customised STARGATE gateway pages is:

```
/* srgstargate.css */
/* Basic style-sheet for Stargate static repository gateway
registration interface */
/* Links: */
a, a:visited {
    color: #333399;
    font-weight: 500;
    text-decoration: none;
}
a:hover {
    text-decoration: underline;
}
/* Visible area of the page */
body {
    background-color: #FFFFFF;
    font-family: Arial, Helvetica, sans-serif;
    padding: 2em;
}
/* Set all margin and padding to 0 */
body * {
    margin: 0em;
    padding: 0em;
}
/* Emphasis */
em {
    color: #FF0000;
    font-style: normal;
    font-weight: 500;
}
/* Paragraph */
p {
    padding-top: 0.6em;
}
/* Strong emphasis */
strong {
    font-weight: bold;
}
/* Headings: */
h1 {
    color: #333399;
    font-size: 2em;
}
h2 {
    font-size: 1.2em;
    padding-top: 0.8em;
}
/* Code snippets and samples: */
.codesample {
    font-family: "Courier New", Courier, mono;
}
/* Top section of the page: */
.header {
    padding-bottom: 0.5em;
    width: 100%;
}
/* Gateway service logo at the left of the top section of the page:
*/
.headerlogo {
```

```

        float: left;
        padding-right: 2em;
        padding-top: 0.3em;
    }
    /* Gateway service title in the top section of the page: */
    .headertitle {
    }
    /* Form input control: */
    .inputcontrol {
        padding-bottom: 1em;
    }
    /* Label of form input control: */
    .inputlabel {
        float: left;
        padding-bottom: 0.5em;
        text-align: right;
        width: 20em;
    }
    /* Form prompt: */
    .inputprompt {
        padding-bottom: 1em;
    }
    /* Form submit button: */
    .inputsubmit {
        clear: left;
        float: right;
    }
    /* Section for compliance requirements of the repository to be
    registered: */
    .srcompliance {
        font-size: 0.8em;
    }
    .srcompliance li {
        margin-left: 2em;
        padding-left: 0.4em;
        padding-top: 0.6em;
    }
    .srcompliance li li {
        margin-left: 2em;
        padding-left: 0.5em;
        padding-top: 0.6em;
    }
    .srcompliance ul {
    }
    /* Section for credits and acknowledgements of the Gateway service:
    */
    .srgcredits {
        font-size: 0.8em;
        font-style: italic;
    }
    /* Section for information about the Gateway service: */
    .srgservice {
        clear: both;
    }
    /* Section for registration or termination of the repository: */
    .srregistration, .srtermination {
        background-color: #333399;
        border: 0.05em solid #000000;
        color: #FFFFFF;
        margin-left: 1em;
        margin-right: 1em;
    }

```

```

        margin-top: 1em;
        overflow: auto;
        padding: 0.7em;
    }
    .srregistration em, .srtermination em {
        color: #33FFCC;
    }
    .srregistration p, .srtermination p {
        padding-top: 0em;
    }
    /* Section for link to repository registration or termination page:
    */
    .srregistrationlink, .srterminationlink {
        border: 0.05em solid #333399;
        margin-top: 1em;
        padding: 0.7em;
        text-align: center;
    }
    .srregistrationlink p, .srterminationlink p {
        padding-top: 0em;
    }
    /* Bottom section of the page: */
    .trailer {
        font-size: 0.7em;
        padding-top: 1em;
    }
    /* Organisation logo at the left of the bottom section of the page:
    */
    .trailerlogo {
        float: left;
        padding-right: 1em;
        padding-top: 1em;
    }
    /* Date and version statement at the right of the bottom section of
    the page: */
    .trailerversion {
        float: right;
    }
}

```

Without the CSS file, the STARGATE branded registry.html file is rendered by Internet Explorer 7 as:

# STARGATE

## Static Repository Gateway for small publishers

Welcome! This service improves access to the output of small publishers by allowing their bibliographic records to be distributed to union catalogues and other metadata aggregation services.

This is achieved by allowing those services to harvest the records using [the Open Archives Initiative Protocol for Metadata Harvesting \(OAI-PMH\)](#). The protocol requires the records to use a specific format. This Gateway enables harvesting of a file of such records called a *static repository*, and it complies with the [Specification for an OAI Static Repository and an OAI Static Repository Gateway](#).

### Registration

To register a *Static Repository* with this Gateway, complete all parts of this form and click the Submit button. Please ensure that the repository complies with the technical requirements given below.

URL of the Repository:

Email of the administrator of the Repository:

### Technical requirements

An OAI Static Repository can use this Gateway service if it meets the following conditions:

- The Static Repository file **must** conform with the [Specification for an OAI Static Repository and an OAI Static Repository Gateway](#). Specifically:
  - The Static Repository file **must** validate against [the XML schema specifying the structure of an OAI-PMH Static Repository](#).
  - The network-location of the Static Repository file **must** be an HTTP address, i.e. the network-location **must** start with "http/".
- In addition, the Gateway imposes the following conditions:
  - The network-location of the Static Repository file **must** have a suffix ".xml", i.e. the network-location **must** end on ".xml".
  - The network-location of the Static Repository file **must only** contain characters from the following set:  
[a-z] [A-Z] [0-9] "/" "+" "-" "%" " " "." "\_"
  - The size of the OAI Static Repository **must not** exceed 2 Mb.
- The baseURL element of any Static Repository file registered at this gateway **must** conform to the pattern:  
"http://" + "stargate.cdlib.strath.ac.uk/cgi-bin/gateway/gateway.cgi" + the network-location address of the file (without the HTTP prefix).  
For example:
  - if the network-location of the Static Repository file is "http://mydomain.com/mysrfile.xml", the file **must** contain the element:  
<oaibaseURL>  
http://stargate.cdlib.strath.ac.uk/cgi-bin/gateway/gateway.cgi/mydomain.com/mysrfile.xml  
</oaibaseURL>
  - if the network-location of the Static Repository file is "http://mydomain.com/sr/mysrfile2.xml", the file **must** contain the element:  
<oaibaseURL>  
http://stargate.cdlib.strath.ac.uk/cgi-bin/gateway/gateway.cgi/mydomain.com/sr/mysrfile2.xml  
</oaibaseURL>
- The Static Repository file **must not** be registered with any other Gateway service.

To prevent a Static Repository already registered with this Gateway service from being harvested, use the [Termination](#) page.

The Stargate gateway was developed and is maintained by the [Centre for Digital Library Research](#) as part of the [Stargate project extension](#).

The software for this Gateway service was developed by Patrick Hochstenbach & Henry Jerez, in a project of the Prototyping Team of the [Research Library of the Los Alamos National Laboratory](#).



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### 3.3 Dreamweaver templates

The customised STARGATE gateway registry.html and terminator.html files were generated from Macromedia Dreamweaver MX templates. (The Dreamweaver elements have been removed from the example file listed above.)

The templates provide fixed XHTML and content for the mandatory components of the pages, and editable XHTML and content for optional components. The fixed XHTML includes Cascading Style Sheet elements corresponding to a generic CSS file (srg.css) which can be used to customise the pages.

The template for registry.html (srregister.dwt) contains two template parameters for:

- 1) The domain name and path of the Gateway service srreopd software.
- 2) The path and filename of the CSS file.

The first parameter is used in the statement of technical compliance requirements, where it appears several times. A value for this parameter is mandatory; if it is not supplied, the statement will be incorrect and the registration function will be severely impaired.

The second parameter is used to link the stylesheet to the page. If a value is not supplied, only the design of the page will be affected, and the registration function will not be impaired.

The template for terminator.html (srterminate.dwt) contains one parameter, for the path and filename of the CSS file. If a value is not supplied, the termination function will not be impaired.

The templates and CSS file

- srregister.dwt
- srterminate.dwt
- srg.css

are available for download from the STARGATE project website

(<http://cdlr.strath.ac.uk/stargate> ).