RDF Site Summary 1.0 Modules: Service Status

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Status

Proposed

Rights

Description

This module extends RSS to include elements which allow the description of the status and current availability of services and servers.

Some data, such as whether a server is up or not, would normally be generated automatically, whilst other data, such as explanatory text for humans, might be the result of further processing or direct human input. A service as seen from a user's point of view might not be a one-to-one mapping to a service as seen from a system point of view. If, for example, a user service is dependent on more than one system service being available then the user service is available if and only if all those system services are available. This can easily be calculated with both input and output conforming to this specification.

ss:lastChecked gives the most recent time that the service was tried. **lastSeen** gives the most recent time that the service responded. **ss:responding** is true or false, depending on whether the service responded at the last check. In the case that the service is responding the two times should be equal. If the service is not responding then it is useful to have an approximation of how long it has been down, by comparing the two times.

ss:availability and **averageResponseTime** are statistics which may be calculated as you wish. **ss:aboutStats** should give access to a description of how these have been calculated so that the statistics are meaningful.

ss:statusMessage allows for a message about the service and its status. Often this will not be needed. However messages such as "This service will be rebooted over lunchtime", "We know this is unavailable - we're all working on the problem so please stop phoning us" or "There is an intermittent problem which we are monitoring" could at times be appropriate. A message may be included independent of whether the service is currently responding or not.

Namespace Declarations

- **xmlns:ss="http://purl.org/rss/1.0/modules/servicestatus/"**

Model

<channel> Elements:

- **<ss:aboutStats>** (rdf:resource)

<item> Elements:

- **\<ss:responding\>** (true | false) [boolean]
- **\<ss:lastChecked\>** (#PCDATA) [W3CDTF]
- **\<ss:lastSeen\>** (#PCDATA) [W3CDTF]
- **\<ss:availability\>** (integer) [percentage]
- **\<ss:averageResponseTime\>** (float) [seconds]
- **\<ss:statusMessage\>** (#PCDATA)

Example

```xml
<?xml version="1.0" encoding="utf-8"?>

<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-
ns#"

xmlns:ss="http://purl.org/rss/1.0/modules/servicestatus/
"
  xmlns="http://purl.org/rss/1.0/"
>

  <channel rdf:about="http://my.organisation.com">
    <title>An Example</title>
    <description>Just an example of system
statuses</description>
    <link>http://my.organisation.com</link>

<ss:aboutStats>http://my.organisation.com/availabilityca
lculations.html</ss:aboutStats>
    <items>
      <rdf:Seq>
        <rdf:li
resource="http://my.organisation.com/website" />
        <rdf:li
resource="http://my.organisation.com/database" />
        <rdf:li
resource="http://my.organisation.com/searchinterface" />
      </rdf:Seq>
    </items>

  </channel>

  <item rdf:about="http://my.organisation.com/website">
    <title>Website</title>
    <link>http://my.organisation.com/website</link>
    <ss:responding>true</ss:responding>
    <ss:lastChecked>2002-05-
10T19:20:30.45+01:00</ss:lastChecked>
```

```
        <ss:lastSeen>2002-05-
10T19:20:30.45+01:00</ss:lastSeen>
        <ss:availability>85</ss:availability>
        <ss:averageResponseTime>5.2</ss:averageResponseTime>
    </item>

    <item rdf:about="http://my.organisation.com/database">
        <title>Database server</title>
        <link>http://my.organisation.com/database</link>
        <ss:responding>false</ss:responding>
        <ss:lastChecked>2002-05-
10T19:20:30.45+01:00</ss:lastChecked>
        <ss:lastSeen>2002-05-
09T13:43:56.24+01:00</ss:lastSeen>
        <ss:availability>77</ss:availability>

<ss:averageResponseTime>12.2</ss:averageResponseTime>
        <ss:statusMessage>Engineers are
investigating.</ss:statusMessage>
    </item>

    <item
rdf:about="http://my.organisation.com/searchinterface">
        <title>Search Interface</title>

<link>http://my.organisation.com/searchinterface</link>
        <description>This is a web interface to search a
database and is only
        usable if both the database server and the website
are responding.</description>
        <ss:responding>false</ss:responding>
        <ss:lastChecked>2002-05-
10T19:20:30.45+01:00</ss:lastChecked>
        <ss:lastSeen>2002-05-
09T13:43:56.24+01:00</ss:lastSeen>
        <ss:statusMessage>Engineers are
investigating</ss:statusMessage>
    </item>

</rdf:RDF>
```