RDF Site Summary 1.0 Modules: Subscription

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Description

The mod_subscription module supports the syndication of site subscription information along with RSS 1.0 XML feeds.
This information can be used to enable a number of very compelling features:

- Allow user agents to present a 'blogroll' in front of the reader so that they can navigate to other RSS channels and websites.
- Enable RSS aggregators to (explicitly) discovery web communities between groups of RSS channels.

- Facilitate RSS robot discovery of RSS feeds by search aggregators.
- Enable P2P spanning search algorithms which can use the directional edges exposed by this module to navigate across RSS channels.

There are two main roles for this module. When mod_subscription is used from within a personal weblog these are essentially user subscriptions. When syndicated from a corporate (professional) site such as CNN, CNET, etc, these essentially form recommendations of external sites (further reading or affiliate links).

Namespace Declarations

- **xmlns:sub="http://purl.org/rss/1.0/modules/subscription/"**
- **xmlns:dc="http://purl.org/dc/elements/1.1/"**

Syntax

sub:channel

sub:channel is a sub-element of the RSS <channel> element. It is used as follows:

```
<sub:channel
rdf:about="http://www.wired.com/news_drop/netcenter/netc
enter.rdf">

    <!-- title for this subscription.  This is the title
for the subscription
    locally and may have a different name than the
official site.  User agents
    may wish to use the title of the RSS channel instead
of the given title -->

    <dc:title>Wired News</dc:title>

    <!-- Can be any format but RSS (1.0) is recommended
-->

    <dc:format>application/rss+xml</dc:format>

    <!-- optional site URL for use if :

        1. the main RSS feed becomes invalid and we need
to discover a new RSS
```

```
            feed.

        2. we want to XSLT the a 'blogroll' on the
server

    -->
    <sub:site rdf:resource="http://www.wired.com"/>


    <!-- client specific subscription URLs (vendor
resources).  This is provided
    for ease of use by adopters.  Ideally clients that
need to invoke specific
    clients should incorporate vendor integration into
their system.  For
    example it would be better to have radio produce
these URLs internally (or
    via an external application) instead of assuming
that all RSS producers will
    provide the URL. -->


    <sub:vendor sub:name="radio"

rdf:resource="http://127.0.0.1:5335/system/pages/subscri
ptions?url=http%3A%2F%2F80211b.weblogger.com%2Fxml%2Fscr
iptingNews2.xml"/>


</sub:channel>
```

sub:vendor

sub:vendor is an optional element for providing vendor specific subscription
URLs for RSS channels.

```
<sub:vendor sub:name="radio"

rdf:resource="http://127.0.0.1:5335/system/pages/subscri
ptions?url=http%3A%2F%2F80211b.weblogger.com%2Fxml%2Fscr
iptingNews2.xml"/>


<sub:vendor sub:name="bonita"
            rdf:resource="view-
rss:http://www.peerfear.org/rss/index.rss"/>
```

From web.resource.org/rss/1.0/modules/subscription/   1 September 2003

sub:site

sub:site is an optional element for providing the URL for the main site of a channel. This is optional since the linking RSS file is going to have a channel link.

```
<!-- optional site URL for use if :

    1. the main RSS feed becomes invalid and we need to
discover a new RSS
        feed.

    2. we want to XSLT the a 'blogroll' on the server

-->
<sub:site rdf:resource="http://www.wired.com"/>
```

SRDF support

mod_subscription supports the Simple RDF (SRDF) mechanism for integration within RDF applications. It is possible to generate RDF for a channel which uses mod_subscription with the included srdf.xsl XSL stylesheet.

It is also possible to store mod_subscription information in an external RDF file and link to it from within the channel element.

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

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

xmlns:ref="http://purl.org/rss/1.0/modules/reference/"
        xmlns:dc="http://purl.org/dc/elements/1.1/"

xmlns:sub="http://purl.org/rss/1.0/modules/subscription/
"
        xmlns:l="http://purl.org/rss/1.0/modules/link/"
        xmlns="http://purl.org/rss/1.0/">

    <channel rdf:about="http://example.org/rss.rdf">
        <title>Example Feed</title>
```

```
          <link>http://www.example.org</link>
          <description>Simply for the purpose of
demonstration.</description>
```

```
          <items>
              <rdf:Seq>
                  <rdf:li
resource="http://www.xmlhack.com/read.php?item=1725" />
              </rdf:Seq>
          </items>

          <l:link
l:rel="http://purl.org/rss/1.0/modules/subscription/"
                  l:type="application/rdf+xml"
                  l:title="Subscriptions"

rdf:resource="http://www.example.org/example-
subscriptions.rdf"/>

      </channel>

      <item
rdf:about="http://www.xmlhack.com/read.php?item=1725">

          <title>Relax NG schemas for XML Encryption and
XML Signature</title>

<link>http://www.xmlhack.com/read.php?item=1725</link>

      </item>

</rdf:RDF>
```

Example

This is an example of an RSS channel publishing two subscription channels.

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

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

```
        xmlns:dc="http://purl.org/dc/elements/1.1/"

xmlns:sub="http://purl.org/rss/1.0/modules/subscription/
    "

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

    <channel rdf:about="http://example.org/rss.rdf">
        <title>Example Feed</title>
        <link>http://www.example.org</link>
        <description>Simply for the purpose of
demonstration.</description>

        <items>
            <rdf:Seq>
                <rdf:li
rdf:resource="http://www.xmlhack.com/read.php?item=1725"
/>
            </rdf:Seq>
        </items>

        <sub:channel
rdf:about="http://www.wired.com/news_drop/netcenter/netc
enter.rdf">

            <dc:title>Wired News</dc:title>
            <dc:format>application/rss+xml</dc:format>
            <sub:site
rdf:resource="http://www.wired.com"/>

        </sub:channel>

        <sub:channel
rdf:about="http://www.peerfear.org/rss/index.rss">

            <dc:title>peerfear.org</dc:title>
            <dc:format>application/rss+xml</dc:format>
            <sub:site
rdf:resource="http://www.peerfear.org"/>

        </sub:channel>

    </channel>

    <item
rdf:about="http://www.xmlhack.com/read.php?item=1725">
```

From web.resource.org/rss/1.0/modules/subscription/   1 September 2003

```
        <title>Relax NG schemas for XML Encryption and
XML Signature</title>

<link>http://www.xmlhack.com/read.php?item=1725</link>
```

```
    </item>

</rdf:RDF>
```

RDF Example

This is an example of an RDF file publishing two subscription channels via mod_subscription. This file was automatically created with srdf.xsl

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF
xmlns:sub="http://purl.org/rss/1.0/modules/subscription/
"
        xmlns:rss="http://purl.org/rss/1.0/"
        xmlns:dc="http://purl.org/dc/elements/1.1/"
        xmlns:rdf="http://www.w3.org/1999/02/22-rdf-
syntax-ns#">

    <rdf:Description
rdf:about="http://example.org/rss.rdf">
        <sub:channel>
            <rdf:Bag>
                <rdf:li
rdf:resource="http://www.wired.com/news_drop/netcenter/n
etcenter.rdf"/>
                <rdf:li
rdf:resource="http://www.peerfear.org/rss/index.rss"/>
            </rdf:Bag>
        </sub:channel>
    </rdf:Description>

    <sub:channel
rdf:about="http://www.wired.com/news_drop/netcenter/netc
enter.rdf">

        <dc:title>Wired News</dc:title>
        <dc:format>application/rss+xml</dc:format>
```

```
    </sub:channel>
    <sub:channel
rdf:about="http://www.peerfear.org/rss/index.rss">

        <dc:title>peerfear.org</dc:title>

        <dc:format>application/rss+xml</dc:format>

        <sub:site
rdf:resource="http://www.peerfear.org"/>

    </sub:channel>

</rdf:RDF>
```
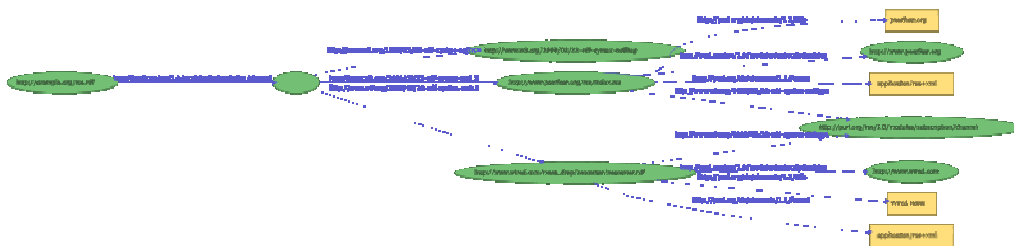
When rendered as a RDF graph the semantic relationship looks like:

Example SVG

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <svg height="600" viewBox="0 0 1726 669" width="800"
    xmlns="http://www.w3.org/2000/svg"
    xmlns:xlink="http://www.w3.org/1999/xlink">
  - <!--

    Generated by XVTM (Xerox Visual Transformation Machine)
     v0.8.0

    -->
  <ellipse cx="491" cy="261" rx="38" ry="18"
    style="fill:rgb(115,191,115);stroke:rgb(66,105,66)" />
  <ellipse cx="965" cy="207" rx="185" ry="18"
    style="fill:rgb(115,191,115);stroke:rgb(66,105,66)" />
  <text style="font-family:dialog;font-
    size:10;stroke:rgb(66,105,66);fill:rgb(66,105,66)" x="811"
    y="210">http://www.w3.org/1999/02/22-rdf-syntax-
    ns#Bag</text>
  <path d="M520 250C526 247 535 244 543 242 637 222 745 213
    782 210" style="fill:none;stroke:rgb(90,89,206)" />
  <polygon points="787,210 779,214 779,206"
    style="fill:rgb(90,89,206);stroke:none" />
  <text style="font-family:dialog;font-
    size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="544"
    y="209">http://www.w3.org/1999/02/22-rdf-syntax-
    ns#type</text>
  <ellipse cx="965" cy="261" rx="135" ry="18"
    style="fill:rgb(115,191,115);stroke:rgb(66,105,66)" />
  <text style="font-family:dialog;font-
    size:10;stroke:rgb(66,105,66);fill:rgb(66,105,66)" x="853"
    y="264">http://www.peerfear.org/rss/index.rss</text>
  <path d="M529 261C593 261 750 261 830 261"
    style="fill:none;stroke:rgb(90,89,206)" />
  <polygon points="835,261 827,265 827,257"
    style="fill:rgb(90,89,206);stroke:none" />
  <text style="font-family:dialog;font-
    size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="548"
    y="257">http://www.w3.org/1999/02/22-rdf-syntax-
    ns#_2</text>
  <ellipse cx="965" cy="414" rx="204" ry="18"
    style="fill:rgb(115,191,115);stroke:rgb(66,105,66)" />
  <text style="font-family:dialog;font-
    size:10;stroke:rgb(66,105,66);fill:rgb(66,105,66)" x="795"
    y="417">http://www.wired.com/news_drop/netcenter/netce
    nter.rdf</text>
  <path d="M522 273C526 274 535 277 543 280 670 323 820 369
    909 396" style="fill:none;stroke:rgb(90,89,206)" />
```

```
<polygon points="914,397 905,399 907,391"
   style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="549"
   y="273">http://www.w3.org/1999/02/22-rdf-syntax-
   ns#_1</text>
<rect height="36"
   style="fill:rgb(255,223,123);stroke:rgb(132,117,66)"
   width="88" x="1493" y="137" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(132,117,66);fill:rgb(132,117,66)"
   x="1501" y="158">peerfear.org</text>
<path d="M1012 244C1048 242 1074 261 1115 234 1129 226
   1120 212 1133 203 1192 165 1403 157 1492 155"
   style="fill:none;stroke:rgb(90,89,206)" />
<polygon points="1497,155 1489,159 1489,151"
   style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="1174"
   y="157">http://purl.org/dc/elements/1.1/title</text>
<ellipse cx="1537" cy="337" rx="189" ry="18"
   style="fill:rgb(115,191,115);stroke:rgb(66,105,66)" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(66,105,66);fill:rgb(66,105,66)" x="1380"
   y="340">http://purl.org/rss/1.0/modules/subscription/chan
   nel</text>
<path d="M1059 275C1146 285 1324 309 1429 323"
   style="fill:none;stroke:rgb(90,89,206)" />
<polygon points="1434,324 1426,327 1427,319"
   style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="1134"
   y="278">http://www.w3.org/1999/02/22-rdf-syntax-
   ns#type</text>
<ellipse cx="1537" cy="209" rx="86" ry="18"
   style="fill:rgb(115,191,115);stroke:rgb(66,105,66)" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(66,105,66);fill:rgb(66,105,66)" x="1466"
   y="212">http://www.peerfear.org</text>
<path d="M1066 249C1075 248 1105 245 1133 242 1249 231
   1385 221 1457 216" style="fill:none;stroke:rgb(90,89,206)" />
<polygon points="1462,216 1454,220 1454,212"
   style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="1143"
   y="218">http://purl.org/rss/1.0/modules/subscription/site<
   /text>
<rect height="36"
   style="fill:rgb(255,223,123);stroke:rgb(132,117,66)"
   width="140" x="1467" y="245" />
```

```
<text style="font-family:dialog;font-
   size:10;stroke:rgb(132,117,66);fill:rgb(132,117,66)"
   x="1479" y="266">application/rss+xml</text>
<path d="M1100 261C1180 262 1376 262 1466 263"
   style="fill:none;stroke:rgb(90,89,206)" />
<polygon points="1471,263 1463,267 1463,259"
   style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="1166"
   y="257">http://purl.org/dc/elements/1.1/format</text>
<rect height="36"
   style="fill:rgb(255,223,123);stroke:rgb(132,117,66)"
   width="140" x="1467" y="502" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(132,117,66);fill:rgb(132,117,66)"
   x="1479" y="523">application/rss+xml</text>
<path d="M995 431C1049 455 1070 456 1133 470 1254 494
   1397 509 1466 514" style="fill:none;stroke:rgb(90,89,206)" />
<polygon points="1471,514 1463,518 1463,510"
   style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="1166"
   y="463">http://purl.org/dc/elements/1.1/format</text>
<path d="M1080 399C1168 386 1328 365 1427 351"
   style="fill:none;stroke:rgb(90,89,206)" />
<polygon points="1432,350 1425,355 1423,347"
   style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="1134"
   y="352">http://www.w3.org/1999/02/22-rdf-syntax-
   ns#type</text>
<ellipse cx="1537" cy="412" rx="78" ry="18"
   style="fill:rgb(115,191,115);stroke:rgb(66,105,66)" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(66,105,66);fill:rgb(66,105,66)" x="1472"
   y="415">http://www.wired.com</text>
<path d="M1169 412C1229 413 1379 413 1459 412"
   style="fill:none;stroke:rgb(90,89,206)" />
<polygon points="1464,412 1456,416 1456,408"
   style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="1143"
   y="408">http://purl.org/rss/1.0/modules/subscription/site<
   /text>
<rect height="36"
   style="fill:rgb(255,223,123);stroke:rgb(132,117,66)"
   width="82" x="1496" y="448" />
<text style="font-family:dialog;font-
   size:10;stroke:rgb(132,117,66);fill:rgb(132,117,66)"
   x="1503" y="469">Wired News</text>
```

```
<path d="M1104 427C1098 427 1116 429 1133 431 1263 442
    1416 456 1496 462" style="fill:none;stroke:rgb(90,89,206)" />
<polygon points="1501,462 1493,466 1493,458"
    style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
    size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="1174"
    y="424">http://purl.org/dc/elements/1.1/title</text>
<ellipse cx="94" cy="261" rx="94" ry="18"
    style="fill:rgb(115,191,115);stroke:rgb(66,105,66)" />
<text style="font-family:dialog;font-
    size:10;stroke:rgb(66,105,66);fill:rgb(66,105,66)" x="16"
    y="264">http://example.org/rss.rdf</text>
<path d="M188 261C245 261 379 261 454 261"
    style="fill:none;stroke:rgb(90,89,206)" />
<polygon points="459,261 451,265 451,257"
    style="fill:rgb(90,89,206);stroke:none" />
<text style="font-family:dialog;font-
    size:10;stroke:rgb(90,89,206);fill:rgb(90,89,206)" x="181"
    y="257">http://purl.org/rss/1.0/modules/subscription/chan
    nel</text>
</svg>
```

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XSLT

```xml
<?xml version="1.0" ?>
  - <!--

    $Id: srdf.xsl,v 1.1 2002/08/14 21:14:13 burtonator Exp $

    Copyright (C) 2000-2003 Kevin A. Burton
    (burton@openprivacy.org)

    This program is free software; you can redistribute it and/or
    modify it under
    the terms of the LICENSE which you should have obtain with
    this package.

    This program is distributed in the hope that it will be
    useful, but WITHOUT ANY
    WARRANTY; without even the implied warranty of MERCHANTABILITY
    or FITNESS FOR A
    PARTICULAR PURPOSE.

  -->
- <xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:rss="http://purl.org/rss/1.0/"
    xmlns:sub="http://purl.org/rss/1.0/modules/subscription/"
    version="1.0">
  <xsl:output indent="yes" />
  - <xsl:template match="/rdf:RDF">
    - <rdf:RDF>
      - <rdf:Description rdf:about="{rss:channel/@rdf:about}">
        - <sub:channel>
          - <rdf:Bag>
            - <xsl:for-each
                select="rss:channel/sub:channel">
                <rdf:li rdf:resource="{@rdf:about}" />
              </xsl:for-each>
            </rdf:Bag>
          </sub:channel>
        </rdf:Description>
        <xsl:apply-templates select="rss:channel/sub:channel" />
      </rdf:RDF>
    </xsl:template>
  - <xsl:template match="@*|node()">
      <xsl:copy-of select="." />
    </xsl:template>
</xsl:stylesheet>
```