Web Services
and
Services on the Web

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W3C Workshop on the Web of Services for Enterprise Computing

27-28th February 2007
WHERE'S PAUL?
telcoms
EoI
federation mobile outsourcing open ubiquitous web deperimeterisation presence personas virtualisation agile offshoring identity
Capabilities
Standards
Web Services on the Web
Web services
Messages

- Mail
- Delivery Truck
- Motorcycle
- Pigeon
- Mailbox
Anonymous URIs

mailto:services@example.com
Forget OSI
Welcome to Header Hell
Pain Points

• message contents
• versioning
• asynchronous transports
ALWAYS OPEN
NEVER CLOSED,
NO WAITING.
Services on The Web
They HATE SOAP!
But

LOVE

The Web
Isn't the Web "Good Enough?"
is it safe?
## HTTP METHODS

<table>
<thead>
<tr>
<th>method</th>
<th>safe</th>
<th>idempotent</th>
<th>semantics</th>
<th>resource</th>
<th>cacheable</th>
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<tbody>
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<td>GET</td>
<td>X</td>
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<td>HEAD</td>
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<td>PUT</td>
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<td>POST</td>
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<td>DELETE</td>
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<td>MOVE</td>
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<td>PATCH</td>
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</table>
POX ≡ SOAP
Resources

demand

cool URIs
Recent Phone Calls

HTTP GET http://example.com/calls/feed

200 OK
Content-Type: application/atom+xml

<feed xmlns="http://www.w3.org/2005/Atom">
  <title>Phonebox Calls</title>
  <link rel="self" href="http://example.com/calls/"
        rel="alternate" type="text/html"/>
  <updated>2007-01-09T11:45:02Z</updated>
  <author><name>Phonebox</name></author>
  <id>tag:example.com,2007-01-09:/calls</id>
  <entry>
    <link href="http://example.com/user/psd/calls/1234567/"/>
    <title>Call 1234567</title>
    <id>tag:example.com/calls/1234567-200701091223313</id>
    <summary>CallInformation</summary>
    <updated>2005-10-13T18:30:02Z</updated>
  </entry>
  <entry>
    <link href="http://example.com/user/fred/calls/17231667/"/>
    ...
</feed>
Generate MessageIDs

Message-Id: <2A7793353757DB4392DF4DFBBC9522550A20155C@I2KM11-UKBR.domain1.systemhost.net>
X-Original-To: public-xsd-databinding@w3.org
X-Archived-At: http://www.w3.org/mid/2A7793353757DB4392DF4DFBBC9522550A20155C@I2KM11-UKBR.domain1.systemhost.net

W3C home > Mailing lists > Public > public-xsd-databinding@w3.org > February 2007


This message: [Message body] [Respond] [More options]
Related messages: [Next message] [Previous message]

From: <paul.downey@bt.com>
Date: Thu, 8 Feb 2007 14:43:26 -0000
Message-ID: <2A7793353757DB4392DF4DFBBC9522550A20155C@I2KM11-UKBR.domain1.systemhost.net>
To: <public-xsd-databinding@w3.org>
Stack
Meta-Meta-Data

- HTTP
- OPTIONS
- WS-Policy
- WADL
- XForms
- Canned HTTP
- HTML
- WSDL
Representations

- HTML
- RSS/Atom
- XML
- JSON
- whatever
Use Cases

- location
- data integration
- line test
- equipment failure
In Conclusion

The W3C
HOWTO: Constrain Web Services

Architecture of the World Wide Web, Volume One
W3C Recommendation 15 December 2004

This version:  http://www.w3.org/TR/2004/REC-webarch-20041215/
Latest version:  http://www.w3.org/TR/webarch/
Previous version:  http://www.w3.org/TR/2004/PR-webarch-20041105/
"W3C Tax"

- SOAP 1.2 webMethod Feature
- WS-Addressing EPRs as Identifiers
- Unique wsa:MessageID
- WSDL 2.0 "safe" operations
Web Services & Services on the Web
The W3C

• Lead The Web to its full potential!

• Maintenance mode for Web services

• Consider forming a "Services on The Web" Best Practices Working Group