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 X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1441

This is a multi-part message in MIME format.

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        Standard for Today,=20
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of=20
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lessons I=20
remember from my Machine Design course is the concept of =93degrees of =
freedom.=94=20
Build a machine with too many degrees of freedom and it flops around =
uselessly,=20
like a limp piece of rope, with no way to predict the output. Build a =
machine=20
with too few degrees of freedom and it=92s a rigid structure, incapable =
of any=20
movement whatsoever. Build a machine with just the right degree of =
freedom and=20
it moves smoothly, with precise, predictable results. </P>
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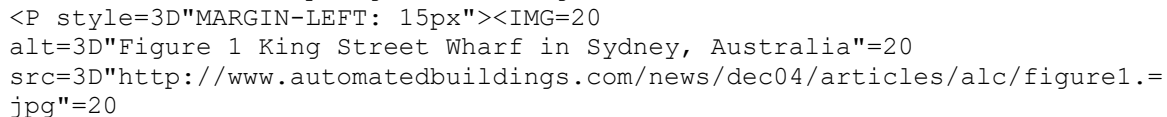
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<P style=3D"MARGIN-LEFT: 15px">In some ways, Web services today have too =
many=20
degrees of freedom. Potentially they can be a very powerful tool to =
integrate=20
all the automated systems within a building into a smooth running =
machine. They=20
can also be used to communicate and coordinate with other high-level =
computer=20
systems such as accounting systems, utility systems, and weather =
forecasting=20
systems. Currently there are no rules on how to apply Web services to =
building=20
automation however. This gives programmers virtually unlimited freedom =
to use=20
Web services any way they want, but it also makes them a very expensive =
tool to=20
use. Each individual integration requires hours of custom programming.=20
Fortunately, ASHRAE is adding a little structure to Web services by =
preparing an=20
addendum to the BACnet specification that will add Web services to the =
BACnet=20
toolkit. The standard is flexible enough to make full use of the power =
of Web=20

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services, but with enough structure to greatly simplify the task of using Web services to integrate building systems. In short, it has just the right degree of freedom.

Just what are Web services? Web services are a standard way for two computers to exchange data over a network. Web services can be used to read data from or to write data to another computer application. Web services can also be used to direct another computer to run a program or subroutine to generate the data needed by the requesting computer. A simple example is the customized weather forecasts many people run on their PCs. Chances are, this forecast is being provided through a Web service hosted by the weather computer. Your computer sends a request to the weather computer, asking it to generate a three-day forecast for Zip Code 12345, with emphasis on outdoor sports and airport conditions. (Or whatever options you've selected.) The Web service itself is based upon Information Technology (IT) standards such as XML and SOAP, but you don't need to understand them to use Web services. The important thing is that the IT world understands them, and Web services are well supported throughout the computer industry.

How widespread are Web services? To begin with, Web services have been adopted as a standard by Microsoft, Apple, Sun, Linux, IBM, and many others. It's unusual for this group of competitors to agree on the time of day, so when they agree on something as technical as Web services it immediately becomes an industry standard. They all put their own little spin on it - Microsoft calls their implementation .NET while IBM calls it WebSphere but at heart they're all based on Web services. Web services have been used in Business to Business (B2B) communications for several years and are quickly becoming the accepted norm. Some of the more prominent adopters include Amazon.com, Google, and Microsoft Passport. The State of New Mexico is using Web services to create a portal, a single web site where users can access data and services from multiple government agencies.

Within the BAS industry, Web services are already being used world-wide to import HVAC after-hours use and utility meter readings into accounting systems and automatically generate tenant bills. (See figure 1) They are also being used to automate commissioning tests, calculate and compare

energy use by similar facilities, and to create virtual thermostats that give users control over their office environments. Test programs are integrating building automation systems with utility systems, implementing control options based upon real-time utility pricing and implementing energy curtailment during emergencies. Universities and other large complexes are experimenting with Web services to create interactive web pages, integrating utility consumption, maintenance management, cost accounting, record drawings, and other systems into a facilities portal, a single user interface that can be used to access all of these systems. (See Figure 2.) Projects under consideration include using weather forecasts to optimize ice storage systems, boiler start-ups, and morning pre-cooling. Universities are exploring the possibility of using their central classroom scheduling computer to automatically schedule HVAC, lighting, and other classroom services.



If BAS vendors are already providing Web services, where does ASHRAE fit in? ASHRAE is establishing a standard means of using Web services to integrate facility data from multiple sources. The IT world established standards for the mechanism of Web services, but these standards say nothing about the actual data being exchanged. (This is analogous to the telecommunications industry establishes standards for telephone systems but does not

not specify what languages or conversations the system can carry.) =
Vendors can=20
claim support for Web services while making as little or as much data =
available=20
as they wish. They can also use whatever data structure they please and =
can make=20
it very easy or very difficult to locate data in their system. Even if =
every=20
vendor tried to create useful Web services interfaces to their system, =
chances=20
are no two interfaces would be alike and connecting two dissimilar =
systems would=20
require hours and hours of custom programming. Some of the more =
farsighted=20
members of our industry foresaw these problems, and three years ago they =
used=20
this web site to call for a standard information model. ASHRAE answered =
the=20
call, and began gathering input from facility engineers, equipment=20
manufacturers, government agencies, and universities. They used this =
information=20
to develop a standard for using Web services in building automation =
systems.=20
This standard covers the types of data to be exchanged, the path used to =
locate=20
the data, and attributes of commonly used data objects such as analog =
inputs or=20
binary outputs. The services required to read or write values are =
defined, as=20
well as services needed to obtain information about the available data =
or to=20
return error messages if a service fails. The standard covers arrays as =
well as=20
scalar data, making it particularly useful for handling trend logs. </P>
<P style=3D"MARGIN-LEFT: 15px">Because this standard is designed for use =
with=20
Building Automation Systems, it was developed by the technical committee =
that is=20
in charge of standards for Building Automation Control networks, i.e. =
the BACnet=20
committee. Once approved, it will become an addendum to the BACnet =
standard,=20
which means it will also become an ANSI, CE, and ISO standard. Naturally =
the=20
standard is compatible with the BACnet protocol, but it is not limited =
to=20
BACnet. Indeed, one of its most useful applications may be to serve as a =
standard for exchanging data between building automation systems using =
different=20
protocols. Web services could be an ideal way to make a =93top end=94 =
connection=20
between systems running BACnet, LonWorks, MODBUS, or any proprietary =
protocol.=20
Engineers would not have to learn the details of each individual =
protocol to=20
program the connections, they would only have to understand the Web =
services=20
standard. A Web services connection would also avoid the problems with=20
incompatible baud rates, wire types, proprietary communication chips, =
and all=20
the other issues that can come into play when a gateway is used to =
connect=20
dissimilar protocols. (See Figure 3)</P>
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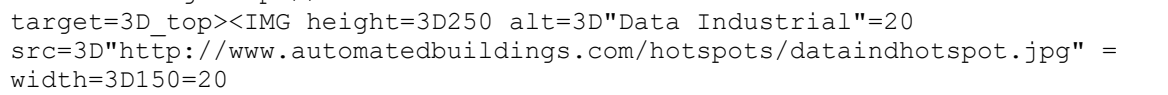
alt="Figure 3: Web services used to integrate BAS running dissimilar protocols, and to connect to a mainframe computer over the Internet." src="http://www.automatedbuildings.com/news/dec04/articles/alc/figure3.jpg" border="0"/>

Figure 3: Web services used to integrate BAS running dissimilar protocols, and to connect to a mainframe computer over the Internet.

Since Web services have quickly become the standard for B2B communications, it's only natural to wonder if they will replace BACnet, LonWorks, and other protocols within the BAS. That's not likely, for several reasons. To begin with, no one has developed a set of Web services that covers all the functions needed by a BAS. Broadcasts, alarms, time synchronization, backup and restore – there are a host of BAS functions that simply are not covered in the proposed Web service standard. Certainly such a standard could be developed, but it would in essence become one more BAS protocol fighting for acceptance in the marketplace. It would not be a protocol that was well suited for a BAS because Web services require more overhead than most BAS controllers can provide. By definition, Web services use XML to communicate over an IP network. IP networks are great for connecting PCs, web servers, and other high-end computers, but it would be very expensive to run an IP network to every unit heater, VAV box, and exhaust fan in a building.

Similarly, XML is a very verbose way to package data. It's designed to be human understandable, flexible, and self-documented. These characteristics also mean it needs to be processed by a powerful computer and transmitted over a high-speed network. This is beyond the capabilities of the price-sensitive controllers typically used for small HVAC equipment like VAV boxes. This may be a temporary limitation, as inexpensive microprocessors gain power and speed with each passing year, but since existing protocols like BACnet are already developed, are a more efficient way of integrating controllers, and are open for use by any equipment manufacturer there is very little incentive to switch these controllers to Web services.

<http://www.automatedbuildings.com/cgi-bin/redirect/sinclair/hotspots/otclicks.log?http://www.dataindustrial.com>



When you try to integrate with systems outside the BAS, such as the local utility system, the situation changes

dramatically. To begin with, the systems you are trying to integrate =
with are=20
not using BACnet, LonWorks, or any other building protocol, and the =
people who=20
manage these systems have no interest in providing a special connection =
for a=20
BAS. They would much rather provide a general-purpose interface that can =
be used=20
by any external computer system. Their system is already running on a =
high-end=20
computer connected to a high-speed IP network, which is exactly the =
situation=20
Web services were created for. The computers and the networks have the=20
=93horsepower=94 to handle Web services. There will probably be certain =
amount of=20
custom linking, if not custom programming, required to make the =
connections, but=20
the self-documenting characteristics of XML simplify the programmer=92s =
task.=20
Chances are the programmer is already familiar with Web services from =
previous=20
B2B integrations, which further simplifies the job. (A customer in Texas =
who was=20
contracting for a custom interface between their BAS and a billing =
system found=20
the contractor cut their price in half when they learned the BAS =
supported Web=20
services.) The addition of a new ASHRAE standard to the Web services =
world=20
promises even greater simplification, using IT technology and the =
foundation of=20
BACnet to take building automation to the next level. </P>
<P style=3D"MARGIN-LEFT: 15px">References:</P>
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<P style=3D"MARGIN-LEFT: 15px">About the Author</P>
<P class=3DMsoNormal style=3D"MARGIN-LEFT: 15px"><SPAN =
lang=3DEN-US>Steve Tom, PE,=20
PhD, is the Director of Technical =
Information at=20
Automated Logic Corporation, Kennesaw Georgia and has more than 30 years =
experience working with HVAC systems. At ALC Steve has coordinated =
the=20
training, documentation, and technical support programs, and frequently =
works=20
with the R&D engineers on product requirements and usability. =20
Currently Steve is directing the development of <A=20
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single"=20
href=3D"http://www.ctrlspecbuilder.com/">http://www.ctrlspecbuilder.com/<=
/A>, a=20
free web-based tool for preparing HVAC control system =
specifications.</P>

<P class=3DMsoNormal style=3D"MARGIN-LEFT: 15px">Prior to joining=20 Automated Logic, Steve was an officer in the U.S. Air Force where he = worked on=20 the design, construction, and operation of facilities (including HVAC = systems)=20 around the world. He also taught graduate level courses in HVAC = Design and=20 HVAC Controls at the Air Force Institute of Technology.</P>
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Content-Type: application/x-javascript

Content-Transfer-Encoding: quoted-printable

Content-Location: http://pagead2.googlesyndication.com/pagead/show_ads.js

```
google_ad_url =3D '' ;=0A=
google_date =3D new Date() ;=0A=
google_random =3D google_date.getTime() ;=0A=
google_org_error_handler =3D window.onerror ;=0A=
=0A=
function quoted(str) {=0A=
    return (str !=3D null) ? '"' + str + '"' : '""';=0A=
}=0A=
=0A=
function google_encodeURIComponent(str) {=0A=
    if (typeof(encodeURIComponent) =3D=3D 'function') {=0A=
        return encodeURIComponent(str) ;=0A=
    } else {=0A=
        return escape(str) ;=0A=
    }=0A=
}=0A=
=0A=
function google_write_tracker(tracker_event) {=0A=
    var qloc =3D window.google_ad_url.indexOf('?') ;=0A=
    var img_src =3D =
'http://pagead2.googlesyndication.com/pagead/imp.gif?event=3D';=0A=
    img_src +=3D tracker_event ;=0A=
    if (qloc !=3D -1 && qloc+1 < window.google_ad_url.length) {=0A=
        img_src +=3D '&' + window.google_ad_url.substring(qloc+1) ;=0A=
    }=0A=
    var img_tag =3D '<i' + 'mg height=3D"1" width=3D"1" border=3D"0" ' +=0A=
        'src=3D' + quoted(img_src) +=0A=
        ' />' ;=0A=
    document.write(img_tag) ;=0A=
}=0A=
=0A=
function google_append_url(param, value) {=0A=
    if (value) {=0A=
        window.google_ad_url +=3D '&' +param + '=3D' + value ;=0A=
    }=0A=
}=0A=
=0A=
function google_append_url_esc(param, value) {=0A=
    if (value) {=0A=
        google_append_url(param, google_encodeURIComponent(value)) ;=0A=
    }=0A=
}=0A=
=0A=
function google_append_color(param, value) {=0A=
    if (value && typeof(value) =3D=3D 'object') {=0A=
        value =3D value[window.google_random % value.length] ;=0A=
    }=0A=
    google_append_url('color_' + param, value) ;=0A=
}=0A=
=0A=
function google_get_user_data() {=0A=
    var javaEnabled =3D navigator.javaEnabled() ;=0A=
    var tz =3D -google_date.getTimezoneOffset() ;=0A=
```



```
=0A=
  if (window.screen) {=0A=
    google_append_url("u_h", window.screen.height);=0A=
    google_append_url("u_w", window.screen.width);=0A=
    google_append_url("u_ah", window.screen.availHeight);=0A=
    google_append_url("u_aw", window.screen.availWidth);=0A=
    google_append_url("u_cd", window.screen.colorDepth);=0A=
  }=0A=
=0A=
  google_append_url("u_tz", tz);=0A=
  google_append_url("u_his", history.length);=0A=
  google_append_url("u_java", javaEnabled);=0A=
=0A=
  if (navigator.plugins) {=0A=
    google_append_url("u_nplug", navigator.plugins.length);=0A=
  }=0A=
  if (navigator.mimeTypes) {=0A=
    google_append_url("u_nmime", navigator.mimeTypes.length);=0A=
  }=0A=
}=0A=
=0A=
function google_show_ad() {=0A=
  var w =3D window;=0A=
  w.onerror =3D w.google_org_error_handler;=0A=
=0A=
  if (w.google_ad_format) {=0A=
    google_is_zero_ad_format=3D((w.google_ad_format).indexOf('0ads'))>0;=0A=
  } else {=0A=
    google_is_zero_ad_format=3Dfalse;=0A=
  }=0A=
=0A=
  if (google_is_zero_ad_format) {=0A=
    if (w.google_num_0ad_slots) {=0A=
      w.google_num_0ad_slots =3D w.google_num_0ad_slots +1;=0A=
    } else {=0A=
      w.google_num_0ad_slots =3D 1;=0A=
    }=0A=
    =0A=
    if (w.google_num_0ad_slots>1) {=0A=
      return;=0A=
    }=0A=
  } else {=0A=
    if (w.google_num_ad_slots) {=0A=
      w.google_num_ad_slots =3D w.google_num_ad_slots + 1;=0A=
    } else {=0A=
      w.google_num_ad_slots =3D 1;=0A=
    }=0A=
  }=0A=
=0A=
  if (w.google_num_slots_to_rotate) {=0A=
    w.google_prev_ad_formats =3D null;=0A=
    if (w.google_num_slot_to_show =3D=3D null) {=0A=
      w.google_num_slot_to_show =3D w.google_random % =
w.google_num_slots_to_rotate=0A=
      + 1;=0A=
    }=0A=
    if (w.google_num_slot_to_show !=3D w.google_num_ad_slots) {=0A=
      return;=0A=
    }=0A=
  } else if (w.google_num_ad_slots > 3 && w.google_ad_region =3D=3D =
null) {=0A=
    return;=0A=
  }=0A=
}=0A=
=0A=
  w.google_ad_url =3D 'http://pagead2.googlesyndication.com/pagead/ads?';=0A=
```

```
w.google_ad_client =3D w.google_ad_client.toLowerCase();=0A=
if (w.google_ad_client.substring(0,3) !=3D 'ca-') {=0A=
    w.google_ad_client =3D 'ca-' + w.google_ad_client;=0A=
}=0A=
w.google_ad_url +=3D 'client=3D' + escape(w.google_ad_client) +=0A=
    '&dt=3D' + w.google_date.getTime();=0A=
=0A=
google_append_url('hl', w.google_language);=0A=
if (w.google_country) {=0A=
    google_append_url('gl', w.google_country);=0A=
} else {=0A=
    google_append_url('gl', w.google_gl);=0A=
}=0A=
google_append_url('gr', w.google_region);=0A=
google_append_url_esc('gcs', w.google_city);=0A=
google_append_url_esc('hints', w.google_hints);=0A=
google_append_url('adsafe', w.google_safe);=0A=
google_append_url('oe', w.google_encoding);=0A=
google_append_url('lmt', w.google_last_modified_time);=0A=
google_append_url_esc('alternate_ad_url', w.google_alterate_ad_url);=0A=
google_append_url('alt_color', w.google_alterate_color);=0A=
google_append_url("skip", w.google_skip);=0A=
=0A=
if (google_is_zero_ad_format) {=0A=
    google_append_url_esc('format', w.google_ad_format.toLowerCase());=0A=
} else {=0A=
    if (w.google_prev_ad_formats) {=0A=
        google_append_url_esc('prev_fmts', =
w.google_prev_ad_formats.toLowerCase());=0A=
    }=0A=
}=0A=
if (w.google_ad_format) {=0A=
    google_append_url_esc('format', w.google_ad_format.toLowerCase());=0A=
    if (w.google_prev_ad_formats) {=0A=
        w.google_prev_ad_formats =3D w.google_prev_ad_formats + ', ' + =
w.google_ad_format;=0A=
    } else {=0A=
        w.google_prev_ad_formats =3D w.google_ad_format;=0A=
    }=0A=
}=0A=
}=0A=
google_append_url('num_ads', w.google_max_num_ads);=0A=
google_append_url('output', w.google_ad_output);=0A=
google_append_url('adtest', w.google_adtest);=0A=
if (w.google_ad_channel) {=0A=
    google_append_url_esc('channel', w.google_ad_channel.toLowerCase());=0A=
}=0A=
google_append_url_esc('url', w.google_page_url);=0A=
google_append_color('bg', w.google_color_bg);=0A=
google_append_color('text', w.google_color_text);=0A=
google_append_color('link', w.google_color_link);=0A=
google_append_color('url', w.google_color_url);=0A=
google_append_color('border', w.google_color_border);=0A=
google_append_color('line', w.google_color_line);=0A=
google_append_url('kw_type', w.google_kw_type);=0A=
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google_append_url_esc('contents', w.google_contents);=0A=
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google_append_url('max_radlink_len', w.google_max_radlink_len);=0A=
google_append_url('rl_filtering', w.google_rl_filtering);=0A=
google_append_url('rl_mode', w.google_rl_mode);=0A=
google_append_url('rt', w.google_rt);=0A=
google_append_url('ad_type', w.google_ad_type);=0A=
google_append_url('image_size', w.google_image_size);=0A=
```

```
google_append_url('region', w.google_ad_region);=0A=
google_append_url('feedback_link', w.google_feedback);=0A=
google_append_url_esc('ref', w.google_referrer_url);=0A=
google_append_url_esc('loc', w.google_page_location);=0A=
google_get_user_data();=0A=
=0A=
w.google_ad_url =3D w.google_ad_url.substring(0, 1000);=0A=
w.google_ad_url =3D w.google_ad_url.replace(/%\w?$/, '');=0A=
=0A=
if (google_ad_output =3D=3D 'js' && w.google_ad_request_done) {=0A=
    document.write('<scr' + 'ipt language=3D"JavaScript1.1"' +=0A=
        ' src=3D' + quoted(google_ad_url) +=0A=
        '></scr' + 'ipt>');=0A=
} else if (google_ad_output =3D=3D 'html') {=0A=
    if (w.name =3D=3D 'google_ads_frame') {=0A=
        google_write_tracker('reboundredirect');=0A=
    } else {=0A=
        document.write('<ifr' + 'ame' +=0A=
            ' name=3D"google_ads_frame"' +=0A=
            ' width=3D' + quoted(w.google_ad_width) +=0A=
            ' height=3D' + quoted(w.google_ad_height) +=0A=
            ' frameborder=3D' + quoted(w.google_ad_frameborder) =
+=0A=
            ' src=3D' + quoted(w.google_ad_url) +=0A=
            ' marginwidth=3D"0"' +=0A=
            ' marginheight=3D"0"' +=0A=
            ' vspace=3D"0"' +=0A=
            ' hspace=3D"0"' +=0A=
            ' allowtransparency=3D"true"' +=0A=
            ' scrolling=3D"no">');=0A=
        google_write_tracker('noiframe');=0A=
        document.write('</ifr' + 'ame>');=0A=
    }=0A=
}=0A=
=0A=
w.google_ad_frameborder =3D null;=0A=
w.google_ad_format =3D null;=0A=
w.google_page_url =3D null;=0A=
w.google_language =3D null;=0A=
w.google_gl =3D null;=0A=
w.google_country =3D null;=0A=
w.google_region =3D null;=0A=
w.google_city =3D null;=0A=
w.google_hints =3D null;=0A=
w.google_safe =3D null;=0A=
w.google_encoding =3D null;=0A=
w.google_ad_output =3D null;=0A=
w.google_max_num_ads =3D null;=0A=
w.google_ad_channel =3D null;=0A=
w.google_contents =3D null;=0A=
w.google_alternate_ad_url =3D null;=0A=
w.google_alternate_color =3D null;=0A=
w.google_color_bg =3D null;=0A=
w.google_color_text =3D null;=0A=
w.google_color_link =3D null;=0A=
w.google_color_url =3D null;=0A=
w.google_color_border =3D null;=0A=
w.google_color_line =3D null;=0A=
w.google_adtest =3D null;=0A=
w.google_kw_type =3D null;=0A=
w.google_kw =3D null;=0A=
w.google_num_radlinks =3D null;=0A=
w.google_max_radlink_len =3D null;=0A=
w.google_rl_filtering =3D null;=0A=
w.google_rl_mode =3D null;=0A=
```

```
w.google_rt =3D null;=0A=
w.google_ad_type =3D null;=0A=
w.google_image_size =3D null;=0A=
w.google_feedback =3D null;=0A=
w.google_skip =3D null;=0A=
w.google_page_location =3D null;=0A=
w.google_referrer_url =3D null;=0A=
w.google_ad_region =3D null;=0A=
}=0A=
=0A=
function google_error_handler(message, url, line) {=0A=
    google_show_ad();=0A=
    return true;=0A=
}=0A=
=0A=
window.onerror =3D google_error_handler;=0A=
=0A=
if (window.google_ad_frameborder =3D=3D null) {=0A=
    google_ad_frameborder =3D 0;=0A=
}=0A=
=0A=
if (window.google_ad_output =3D=3D null) {=0A=
    google_ad_output =3D 'html';=0A=
}=0A=
=0A=
if (window.google_ad_format =3D=3D null && window.google_ad_output =
=3D=3D 'html') {=0A=
    google_ad_format =3D google_ad_width + 'x' + google_ad_height;=0A=
}=0A=
=0A=
if (window.google_page_url =3D=3D null) {=0A=
    google_page_url =3D document.referrer;=0A=
    if (window.top.location =3D=3D document.location) {=0A=
        google_page_url =3D document.location;=0A=
        google_last_modified_time =3D Date.parse(document.lastModified) / =
1000;=0A=
        google_referrer_url =3D document.referrer;=0A=
    }=0A=
} else {=0A=
    google_page_location =3D document.referrer;=0A=
    if (window.top.location =3D=3D document.location) {=0A=
        google_page_location =3D document.location;=0A=
    }=0A=
}=0A=
=0A=
google_show_ad();=0A=
=0A=
=0A=
=0A=

-----_NextPart_000_0000_01C52621.E3907A80--
```