

# SECURITY ADVISORY

**ID: FCSA1205**

Microsoft Outlook WebApp

Open Redirection (OWASP - Unvalidated Redirects and Forwards)



## **Background**

From the Microsoft website:

*“Exchange 2010 and Microsoft Outlook Web App deliver a rich, familiar web-based email experience that allows you to:*

*Access email, voicemail, instant messages, and SMS text messages directly from your inbox using any of the major web browsers (Internet Explorer, Safari, Firefox, and Chrome)*

*Use Conversation View to see messages in context, making it easier to manage email more efficiently and reduce inbox overload*

*Share your calendar with colleagues both inside and outside the organization*

*Check other users’ availability with the presence indicator and choose the best mode of communication—email, instant message, or SMS“*

From wikipedia:

*“Outlook Web App (OWA), originally called Outlook Web Access and before that Exchange Web Connect (EWC), is a webmail service of Microsoft Exchange Server 5.0 and later. Outlook Web App comes as a part of Microsoft Exchange Server or Microsoft Office 365.”*

## **Description**

An open redirect is an application that takes a parameter and redirects a user to the parameter value without any validation. This vulnerability is used in phishing attacks to get users to visit malicious sites without realizing it. (OWASP).

## **Analysis**

Attacker links to unvalidated redirect and tricks victims into clicking it. Victims are more likely to click on it, since the link is to a valid site. Attacker targets unsafe forward to bypass security checks.

Attackers are usually redirects users to malicious websites.

Avoiding such flaws is extremely important as they are a favorite target of phishers trying to gain the user’s trust.

## ***Exploit***

(tested on)

Version: 14.1.287.0

Client Access server version: 14.1.218.0

Mailbox server Microsoft Exchange version: 14.1.218.0

Should be valid for the latest and patched version at June 2012.

Original link:

<https://exchange.funnytest.com/owa/redir.aspx?C=5gsljn5jyfnak5ecjngakj5ngakj5gk4&URL=https%3a%2f%2fwww.notfunnytest.org%2fdocs%2finformation.pdf>

Malicious link:

<https://exchange.funnytest.com/owa/redir.aspx?C=5gsljn5jyfnak5ecjngakj5ngakj5gk4&URL=https%3a%2f%2fwww.MALICIOUS.org%2fdocs%2finformation.pdf>

## ***CVE Reference***

N/A at the release time.

## ***Recommendations***

1. Preform input validation.

## ***Disclosure Timeline***

14 June 2012 – Vulnerability found.

14 June 2012 – Vendor Notification.

15 June 2012 – Vendor ACK back, opened a case.

29 June 2012 – ACKed the vendor for a fix date.

29 June 2012 – Vendor reply “The above strikes me as not being an open redirect at all. Can you elaborate on a scenario where this could actually be used as an open redirect?”.

2 July 2012 – Public Disclosure, we will let the public decide if it can be used.

## ***The Security Research Team***

This advisory has been discovered by FortConsult’s Security Research Team/Yaniv Miron.

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