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SEC Consult SA-20211104-0 :: Reflected cross-site scripting vulnerability in IBM Sterling B2B Integrator

From: "Functional Account, SEC Consult Vulnerability Lab" <security-research () sec-consult com>
Date: Thu, 4 Nov 2021 09:30:21 +0000

```
SEC Consult Vulnerability Lab Security Advisory < 20211104-0 >
=====
      title: Reflected cross-site scripting vulnerability
      product: IBM Sterling B2B Integrator
vulnerable version: 5.2.0.0 - 5.2.6.5_3
                    6.0.0.0 - 6.0.3.4
                    6.1.0.0 - 6.1.0.2
      fixed version: 5.2.6.5_4 or higher
                    6.0.3.5 or higher
                    6.1.0.3 or higher
      CVE number: CVE-2021-20562
      impact: medium
      homepage: https://www.ibm.com/products/b2b-integrator
      found: 2021-02-03
      by: Sutthiwat Panithansuwan (Office Bangkok)
         Thongchai Silpavarangkura
         SEC Consult Vulnerability Lab

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      https://www.sec-consult.com
=====
```

Vendor description:

"IBM® Sterling B2B Integrator helps companies integrate all their complex B2B and EDI processes across partner communities in a single gateway. It provides a flexible platform, available on premises or through hybrid cloud, that supports data transformation and most communication protocols; secures your B2B network and data; provides certified container support; and achieves high availability for operation with IBM Sterling Global Mailbox. B2B Integrator enables you to reduce costs by consolidating on a single platform and automating B2B processes across enterprises, while providing governance, adherence to standards and visibility for those processes."

Source: <https://www.ibm.com/products/b2b-integrator>

Business recommendation:

SEC Consult recommends updating to the latest version of IBM Sterling B2B Integrator.

An in-depth security analysis performed by security professionals is highly advised, as the software may be affected from further security issues.

Vulnerability overview/description:

1) Reflected Cross-Site Scripting (CVE-2021-20562)
A reflected cross-site scripting vulnerability has been identified across multiple functions in the mailbox component of IBM Sterling B2B Integrator, which can be exploited under the specific condition of a victim's session.

Proof of concept:

1) Reflected Cross-Site Scripting (CVE-2021-20562)
The "securtoken" parameter of the following scripts is affected by the reflected cross-site scripting vulnerability:
/mailbox/jsp/MBIList.jsp
/mailbox/jsp/MBISearch.jsp
/mailbox/jsp/MBISend.jsp

The exploitation is successful if the "SCI_DLSSO" cookie is valid, and the "JSESSIONID" cookie of the mailbox is invalid or does not exist. One of the possible scenarios to meet this condition is proceeding to the following steps:

1. Log in to the dashboard via `https://<host>/dashboard/Login` to obtain an "SCI_DLSSO" cookie.
2. Visit the mailbox web page via `https://<host>/mailbox`, which gets logged in automatically since the web browser sends the "SCI_DLSSO" cookie from the step 1 to obtain a "JSESSIONID" cookie of the mailbox (Path=/mailbox/).
3. Log out of the dashboard via `https://<host>/dashboard/Logout`
The server appears to invalidate both "SCI_DLSSO" cookie in the step 1 and mailbox's "JSESSIONID" cookie in the step 2.
4. Log in to the dashboard via `https://<host>/dashboard/Login` again to obtain a new "SCI_DLSSO" cookie.
5. Visit one of the following attacker-prepared URLs, where the web browser uses the mailbox's "JSESSIONID" cookie in the step 2 and the "SCI_DLSSO" cookie in the step 4, as follows:

```
https://<host>/mailbox/jsp/MBIList.jsp?securtoken%3C/script%3E%3Cscript%3Ealert(location.origin);%3C/script%3E%3Cscript%3E
https://<host>/mailbox/jsp/MBISearch.jsp?securtoken=%27%22%3C/a%3E%3Csvg/onload%3Dalert(location.origin)%3E
https://<host>/mailbox/jsp/MBISend.jsp?securtoken=%27%22%3E%3Csvg/onload=alert(location.origin)%3E
```

Vulnerable / tested versions:

The version 6.1.0.0 has been tested. According to the vendor, the following product versions are affected:
* 5.2.0.0 - 5.2.6.5_3
* 6.0.0.0 - 6.0.3.4
* 6.1.0.0 - 6.1.0.2

Vendor contact timeline:

2021-02-06: Contacting vendor through HackerOne
2021-02-07: HackerOne: Report is currently under investigation
2021-02-23: Vendor: still investigating the vulnerability
2021-02-24: Status change to "triaged", confirmed that it is a valid vulnerability
Kindly asking vendor to keep us informed
2021-03-29: Asking for a status update

2021-03-29: Vendor will contact us when the public notice / patch is available
2021-04-16: Vendor is still working on the issue.
2021-06-23: Asking for a status update
2021-06-29: Vendor is still working on the issue.
2021-07-27: Vendor: The issue is fixed in previous releases but not in 6.0 yet,
which is scheduled for a later date.
2021-10-15: Vendor: all patches are publicly available
2021-11-04: Coordinated release of the security advisory

Solution:

The vendor provides patches for the affected product versions:
* 5.2.6.5.4 or higher
* 6.0.3.5 or higher
* 6.1.0.3 or higher

Further information can be found here:
<https://www.ibm.com/support/pages/node/6475301>

Workaround:

None

Advisory URL:

<https://sec-consult.com/vulnerability-lab/>

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The SEC Consult Vulnerability Lab is an integrated part of SEC Consult, an Atos company. It ensures the continued knowledge gain of SEC Consult in the field of network and application security to stay ahead of the attacker. The SEC Consult Vulnerability Lab supports high-quality penetration testing and the evaluation of new offensive and defensive technologies for our customers. Hence our customers obtain the most current information about vulnerabilities and valid recommendation about the risk profile of new technologies.

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EOF Thongchai Silpavarangkura, Sutthiwat Panithansuwan / @2021

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