

hitachi-sec-2021-601 : XML Signature Wrapping Attack (XSW) issue in Hitachi ID Bravura Security Fabric



Security Information

Related Links

[Hitachi Security Advisories](#)
[Hitachi Vulnerability Disclosure Process](#)
[Acknowledgments](#)

Last Update: May 29, 2021

1. Overview

Vulnerability has been fixed in Hitachi ID Bravura Security Fabric.

CVE-2021-3196: XML Signature Wrapping Attack (XSW) issue

When using federated identity management (authenticating via SAML through a third-party identity provider), an attacker injects additional data into a signed SAML response being transmitted to the service provider (Hitachi ID Bravura Security Fabric). The application successfully validates the signed values but uses the unsigned malicious values. An attacker with lower-privilege access to the application can inject the username of a high-privilege user to impersonate that user.

CVSS:2.0 [AV:N/AC:L/Au:S/C:C/I:C/A:C](#)
CVSS:3.1 [AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H](#)
[CWE-347: Improper Verification of Cryptographic Signature](#)

2. Affected Systems

Hitachi ID Bravura Security Fabric: 11.0.0 - 11.1.3, 12.0.0 - 12.0.2, and 12.1.0
{ "version": { "and": { "greaterThanOrEqual": "cpe:2.3:a:hitachi:hitachi_id_bravura_security_fabric:11.0.0", "lessThanOrEqual": "cpe:2.3:a:hitachi:hitachi_id_bravura_security_fabric:11.1.3" }}}
{ "version": { "and": { "greaterThanOrEqual": "cpe:2.3:a:hitachi:hitachi_id_bravura_security_fabric:12.0.0", "lessThanOrEqual": "cpe:2.3:a:hitachi:hitachi_id_bravura_security_fabric:12.0.2" }}}
cpe:2.3:a:hitachi:hitachi_id_bravura_security_fabric:12.1.0

3. Impact

Escalation of Privileges: Attackers can impersonate another user, including higher privilege levels.

4. Solution

Users and administrators are encouraged to upgrade to fixed version.

Hitachi ID Bravura Security Fabric
<https://www.hitachi-id.com/products/bravura-security-fabric>
CVE-2021-3196 Attackers Can Impersonate Another User
<https://www.hitachi-id.com/cve-2021-3196-attackers-can-impersonate-another-user>

5. References

CVE-2021-3196
<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-3196>

6. Update history

May 29, 2021 This webpage was newly created and published.

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