

# Belden Security Bulletin – Industrial IT BSECV-2019-08

# Hirschmann RSP, RSPE, and OS2 series HSR denial of service vulnerability

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References: CVE-2020-93071

## **Executive Summary**

A crafted HSR frame can cause a denial of service on one of the ports in an HSR ring.

#### **Details**

A change in the HSR implementation of the RSP, RSPE, or OS2 devices in HiOS 07.0.04 introduced a vulnerability. It could allow an unauthenticated, adjacent attacker to cause a denial of service on one of the HSR ring ports of the device.

The CVSS v3.1 severity of this vulnerability is 6.5 (medium):

CVSS:3.1/AV:A/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

#### **Impact**

A successful attack on a device in an HSR ring causes one of the ports in the ring to no longer switch packets, effectively breaking the redundancy of the HSR ring. If the attacker can perform the same attack on a second device, the ring is broken into two parts, thus disrupting communication between devices in the different parts.

#### **Affected Products**

Brand	Product Line / Platform	Product	Version
Hirschmann	HiOS	RSP, RSPE, OS2	07.0.04 – 07.1.00
			08.0.00 – 08.3.xx

#### Solution

Updates are available, which address the vulnerability. Customers are advised to update their product.

Brand	Product Line / Platform	Product	Version
Hirschmann	HiOS	RSP, RSPE, OS2	07.1.01 or higher
			08.4.00 or higher

#### For Help or Feedback

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For technical support and other requests, please visit <a href="https://hirschmann-support.belden.com">https://hirschmann-support.belden.com</a>.

## **Acknowledgments**

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## **Related Links**

• [1] https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-9307

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#### Revisions

V1.0 (2021-01-28): Bulletin published.

BSECV-2019-08 ©Belden Inc. 2021 Page 2 of 2