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Advisory for ABB Test Signal Viewer

ABB-VU-DMRO-71374

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Affected Products

ABB Test Signal Viewer version 1.5

Summary

The Test Signal Viewer software is a PC product used for tuning motion parameters for external axes, such as track motion and turning tables.

An update is available that resolves the privately reported vulnerability in the product version listed above. The vulnerability could allow an attacker who successfully exploited this vulnerability to insert and run arbitrary code on an affected system.

Severity rating

The severity rating for this vulnerability is Moderate; with the overall CVSS score 6.9. This assessment is based on the types of systems that are affected by the vulnerability, how



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difficult it is to exploit, and the effect that a successful attack exploiting the vulnerability could have.

CVSS Overall Score: 6.9

CVSS Vector: *AV:L/AC:M/Au:N/C:C/I:C/A:C/E:ND/RL:ND/RC:ND*

CVSS Link:

[http://nvd.nist.gov/cvss.cfm?version=2&vector=\(AV:L/AC:M/Au:N/C:C/I:C/A:C/E:ND/RL:ND/RC:ND\)](http://nvd.nist.gov/cvss.cfm?version=2&vector=(AV:L/AC:M/Au:N/C:C/I:C/A:C/E:ND/RL:ND/RC:ND))

Corrective Action or Resolution

The problem is corrected in the following product version:

Test Signal Viewer version 1.6

This version is available on the RobotWare 5.15.07.01 DVD and RobotWare 5.61.02 DVD in the “Tools” folder.

The RobotWare 5.15.07.01 DVD and RobotWare 5.61.02 DVD is available for download at the following hyperlink: <http://new.abb.com/products/robotics/robotstudio/downloads>

ABB recommends that customers apply the update at earliest convenience.

Vulnerability Details

A vulnerability exists in a third-party component included in the product version listed above. An attacker could exploit the vulnerability by inserting and run arbitrary code. The victim has to interact with an untrusted source.

Mitigating Factors

For an attack to be successful, a user must visit an untrusted remote file system location and open a document from this location.

Use of web browser and antivirus program that check and report on phishing sites or suspicious web sites will help to mitigate the risk. Removable storage media should be carefully scanned for viruses before they are used.

Workarounds

ABB has not identified any workaround for this vulnerability.



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Frequently asked questions

What is the scope of the vulnerability?

An attacker who successfully exploited this vulnerability could insert and run arbitrary code in an affected system.

What causes the vulnerability?

The vulnerability is caused by Test Signal Viewer loading Dynamic Link Libraries (DLLs) from insecure file location.

What might an attacker use the vulnerability to do?

An attacker who successfully exploited this vulnerability could gain the same user rights as a logged-on user. If the user is logged on with administrative user rights, an attacker who successfully exploited the vulnerability could take full control of an affected system and make unauthorized changes to the system.

How could an attacker exploit the vulnerability?

To exploit this vulnerability, an attacker could use an untrusted source to deliver the specifically crafted DLL file to the victim's computer.

Recommended practices help mitigate such attacks, see section Mitigating Factors above.

Could the vulnerability be exploited remotely?

No, to exploit this vulnerability an attacker would need to have physical access to an affected system or convinces the victim on the computer to interact with an untrusted source such as a remote network location.

What does the update do?

The update removes the vulnerability by updating the third-party component that has been changed by its vendor to remove the vulnerability.

When this security advisory was issued, had this vulnerability been publicly disclosed?

No, ABB received information about this vulnerability through responsible disclosure.

When this security advisory was issued, had ABB received any reports that this vulnerability was being exploited?

No, ABB had not received any information indicating that this vulnerability had been exploited when this security advisory was originally issued.

Acknowledgements

ABB thanks the following for working with us to help protect customers:

- Ivan Sanchez of WiseSecurity Team for discovering this vulnerability and bringing the incident to our attention and working with us on the response.



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Support

For additional information and support please contact your local ABB service organization. For contact information, see www.abb.com.

Information about ABB's cyber security program and capabilities can be found at www.abb.com/cybersecurity.