

CVE-2014-4114: Details on August BlackEnergy PowerPoint Campaigns

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Archived: 2026-04-05 16:18:56 UTC

Cybercrime

In this post we provide additional information on how a specially crafted PowerPoint slideshow file (.PPSX) led to the execution of a BlackEnergy dropper.

14 Oct 2014 • , 2 min. read

At the Virus Bulletin conference that took place in Seattle last month, [we talked about](#) how the BlackEnergy trojan has evolved into a malicious tool used for espionage in Ukraine and Poland.

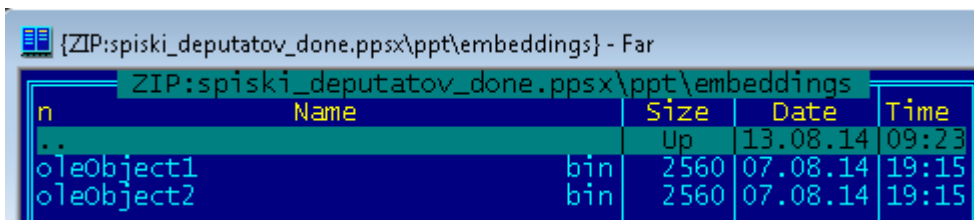
[In our last post on the subject](#), we mentioned the following malware spreading vectors used in BlackEnergy campaigns this year:

- Microsoft Word documents containing exploits, e.g. the CVE-2014-1761 vulnerability
- Executables with a Microsoft Word icon, to lure the victim into opening them
- Exploitation of Java
- Installation through the Team Viewer remote control software
- Microsoft PowerPoint documents containing the CVE-2014-4114 vulnerability

In this post we provide additional information on the latter: how a specially crafted PowerPoint slideshow file (.PPSX) led to the execution of a BlackEnergy dropper.

In the August 2014 campaigns, a number of potential victims have received spear-phishing emails such as the one below.

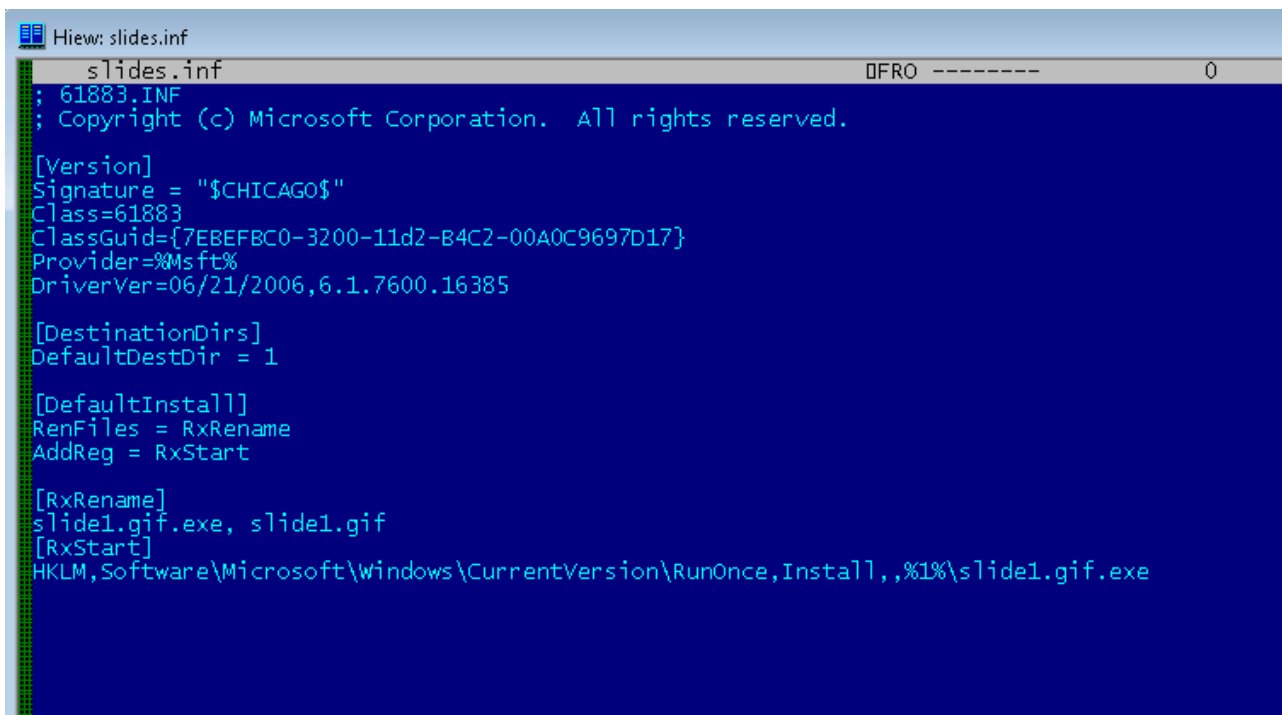
named slide1.gif and slides.inf.



It is a feature of Microsoft PowerPoint to load these files, but it turned out to be a dangerous one, since the objects could be downloaded from an arbitrary untrustworthy network location and executed with none of the warning pop-ups, addressed in the [MS12-005 patch](#).

So what were the two downloaded files? The .gif file was not an image but, in fact, a camouflaged BlackEnergy Lite dropper. [.INF files are executable](#) and typically used to install device drivers.

In this particular instance, the .INF file's job was to rename the BlackEnergy dropper from slide1.gif to slide1.gif.exe and execute it using a simple Windows Registry entry:



Functionally similar exploits have been known since at least 2012 but have not been widely abused. After seeing this one actively used by malware in-the-wild, ESET has reported it to Microsoft on September 2nd, 2014.

Now that the vulnerability has been recognized as CVE-2014-4114 and Microsoft created a patch for it, we strongly encourage all users to close this infection vector by updating as soon as possible.

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