

Gootkit banking Trojan jumps the Channel



First documented in mid-2014 [1], the Gootkit banking Trojan appeared to focus solely on customers from several French banks. This JavaScript-based malware combines web-injects (a la Zeus) and a clever persistence technique to create a robust tool for stealing online banking logins and other credentials from users of infected systems. In 2015, Gootkit integrated certain fileless features previously noted in Poweliks [2], and it has also been observed being dropped directly by Angler EK (Fig. 1) or indirectly via Bedep (Fig. 2).

#	Met...	Re...	Protocol	IP	Host	URL	Content-Type	Body
1	GET	200	HTTP	162.248.243.78	asd.baronlistertekki.biz	/ya8zw6wn9	text/html	91 225
2	GET	200	HTTP	162.248.243.78	asd.baronlistertekki.biz	/6iV006Y41YLP-YKvYL4hpJ4DnPDO8Aq1rNLH_037shXb6R...	application/x-shockwave-flash	76 984
3	GET	200	HTTP	162.248.243.78	asd.baronlistertekki.biz	/2WkXmI5vGH00lbCvxR5kyLkIqnZwgNrVKhB7ueT...	application/octet-stream	234 897
4	POST	200	HTTP	208.113.226.171	www.earthtools.org	/timezone/0/0	application/xml	496
5	POST	200	HTTP	23.201.216.11	www.ecb.europa.eu	/stats/eurofxref/eurofxref-hist-90d.xml	text/xml	76 311
6	POST	200	HTTPS	188.165.202.162	viqbatymxsvz.com	/	text/html	60
7	POST	200	HTTPS	188.165.202.162	viqbatymxsvz.com	/	application/octet-stream	212 992
8	POST	200	HTTPS	188.165.202.162	viqbatymxsvz.com	/	text/html	151 564
9	POST	200	HTTPS	188.165.202.162	viqbatymxsvz.com	/	text/html	0
10	POST	200	HTTPS	188.165.202.162	viqbatymxsvz.com	/	text/html	0
11	GET	200	HTTPS	162.244.34.7	transferringcert.com:80	/rbody32	application/octet-stream	2 654 004

(<https://www.proofpoint.com/sites/default/files/figure-1.png>)

Figure 1: Angler EK dropping Gootkit (2014-09-23)

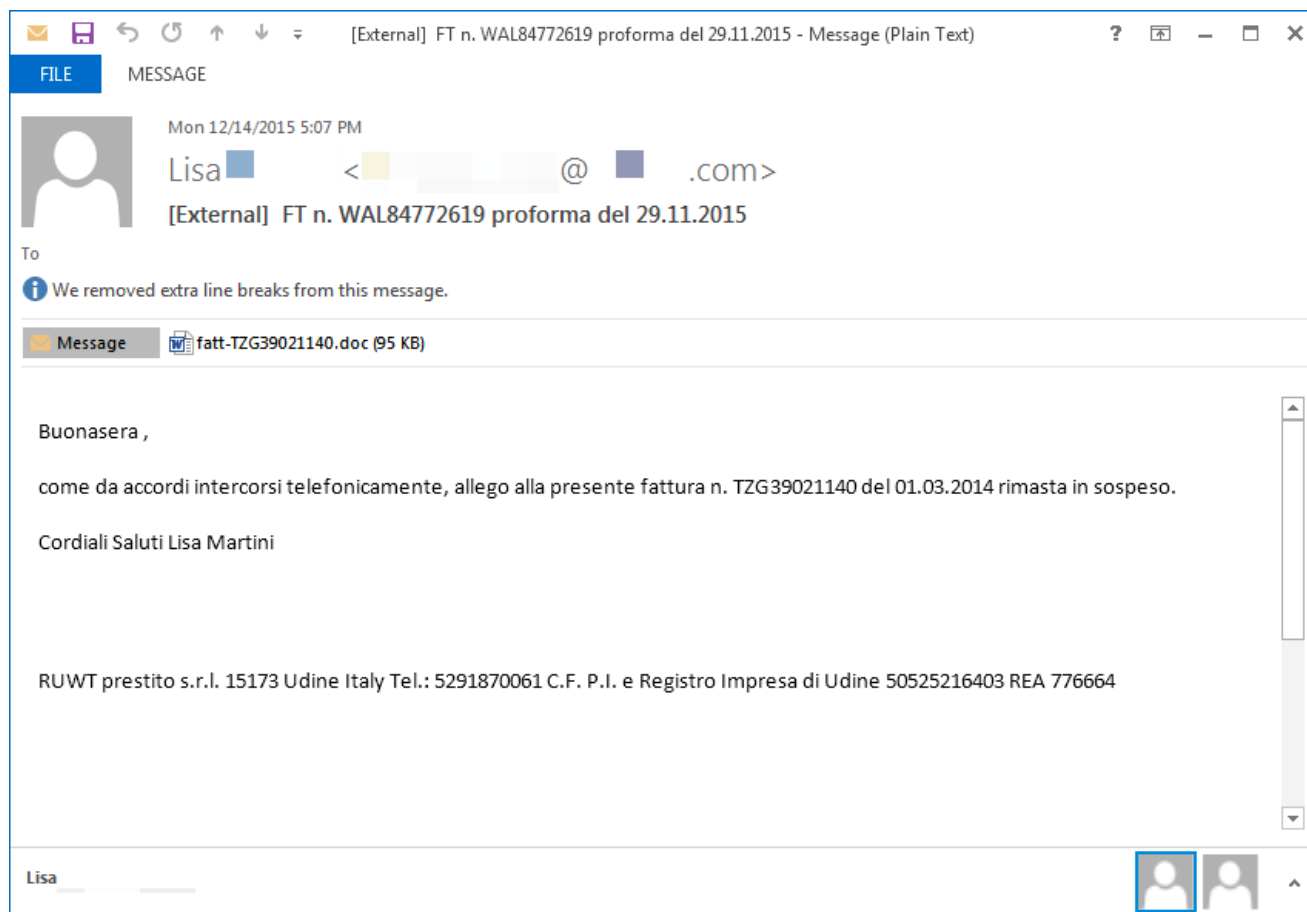
Met...	Re...	Protocol	IP	Host	URL	Content-Type	Body
GET	200	HTTP	131.72.136.235	qwe.yesterdayopenfour.biz	/2gdvinhy4d	text/html	70 592
GET	200	HTTP	131.72.136.235	qwe.yesterdayopenfour.biz	/-VD0XlyIBNuZpTy6kwJv0f7nk1_339ptroqR1he7...	application/octet-stream	84 665
POST	200	HTTP	208.113.226.171	www.earthtools.org	/timezone/0/0	application/xml	496
GET	200	HTTP	131.72.136.235	qwe.yesterdayopenfour.biz	/m1rCPnSerii5U1EuRVS8kph7Nq4dHGw5hoLavSf...	application/x-shockwav...	28 440
GET	200	HTTP	131.72.136.235	qwe.yesterdayopenfour.biz	/RL_EgQL7C3xhmdNVD-1WkcY8X8WcjU0_RTMrw2-p-Bqq...	text/html	46 789
POST	200	HTTP	23.35.120.11	www.ecb.europa.eu	/stats/eurofxref/eurofxref-hist-90d.xml	text/xml	76 221
POST	200	HTTPS	209.126.97.209	aemmiphbweuef59.com	/	text/html	60
POST	200	HTTPS	209.126.97.209	aemmiphbweuef59.com	/	application/octet-stream	282 016
GET	200	HTTP	131.72.136.235	qwe.yesterdayopenfour.biz	/9OuEVMvz12d5eWJuBmYXsg35Y3B7rWeU6juttjz21xlxb...	text/html	0
GET	200	HTTP	131.72.136.235	qwe.yesterdayopenfour.biz	/yazajKn7oh7HpTsoZzqhV-aE_YaGahsdrky_sNw-Mwwjwu...	text/html	0
POST	200	HTTPS	209.126.97.209	aemmiphbweuef59.com	/	application/octet-stream	520 204
POST	200	HTTPS	209.126.97.209	aemmiphbweuef59.com	/	text/html	0
GET	200	HTTPS	31.148.220.186	spaceministrer.com:80	/rbody32	application/octet-stream	3 081 508
GET	200	HTTPS	31.148.220.186	spaceministrer.com:80	/rbody64	application/octet-stream	3 609 418

(<https://www.proofpoint.com/sites/default/files/figure-2.png>)

Figure 2: Bedep dropping Gootkit (2014-12-10)

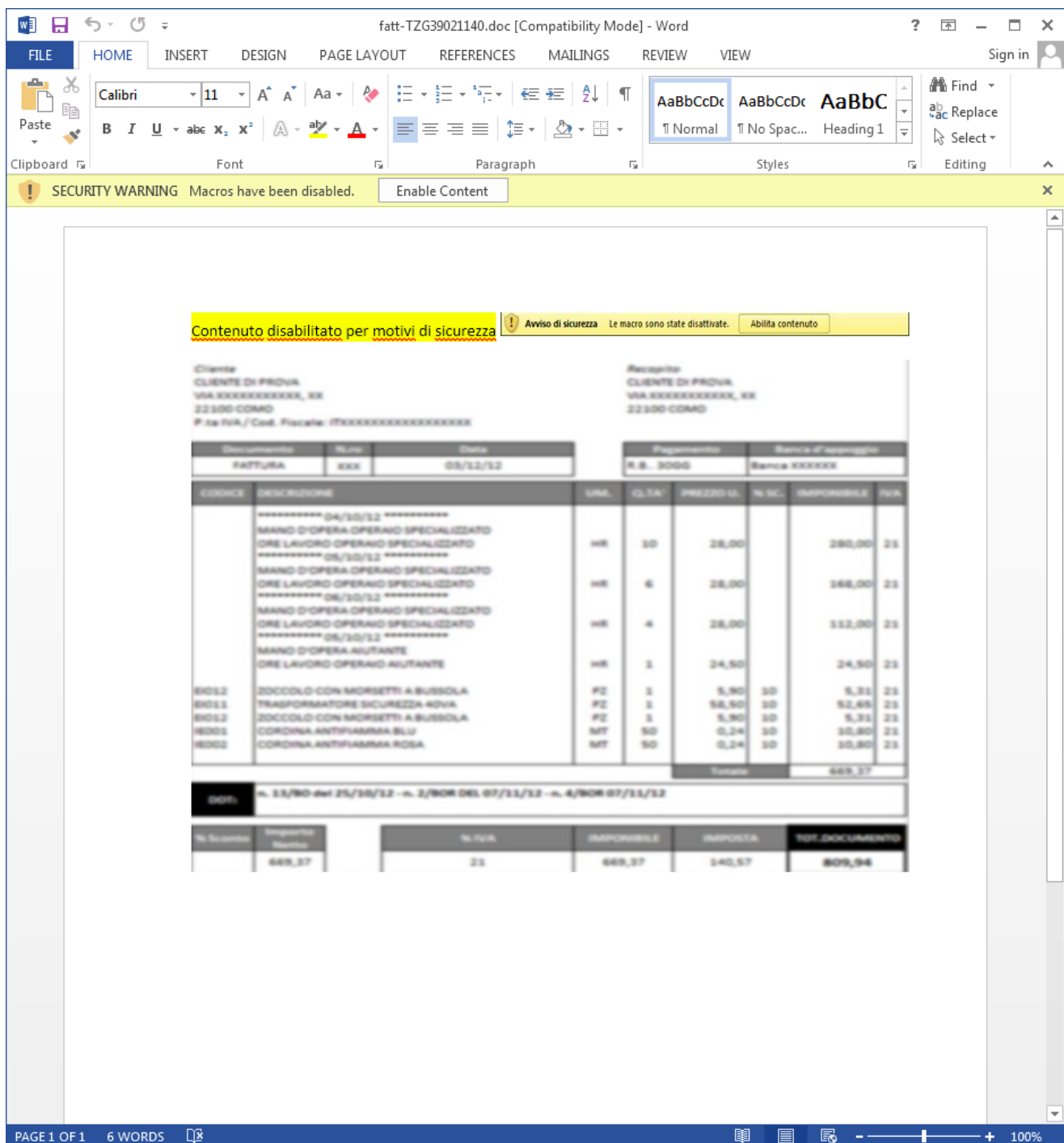
Gootkit has been observed targeting credentials for customers of a range of French financial institutions, including Crédit Mutuel, BNP Paribas, Le Crédit Lyonnais, Crédit Agricole, Société Générale, BTP Banque, and Crédit Coopératif. In March 2015, this distribution expanded to include customers of French and Italian banks through spam campaigns [3] that are still ongoing.

Here is an example of an email and accompanying Word doc used to deliver Gootkit to Italian targets in December of 2015.



(<https://www.proofpoint.com/sites/default/files/figure-3.png>)

Figure 3: Email used to deliver Gootkit (2015-12-14)



(<https://www.proofpoint.com/sites/default/files/figure-4.png>)

Figure 4: Word document used to deliver Gootkit (2015-12-14)

This expansion continued in late October, as Proofpoint researchers observed Gootkit being dropped by Angler EK through multiple infection paths in Canada. Since 2015-11-26, Gootkit has also been seen dropped in Great Britain via Angler EK at the end of a malvertising infection chain.

(<https://www.proofpoint.com/sites/default/files/figure-5.png>)

[illegible]

Figure 6: Snippet of UK-focused injects tied to sample 58aeefd4700af5cb1db1f5603025a5ec

This expanded targeting follows a trend we have observed in recent months, as threat actors seek to reach new victims by shifting their distribution to new regions and verticals. With Gootkit finally crossing the Channel it would not be surprising to see it in other regions in the near future, as well as to see other malware with limited geographic presence (such as Shifu) jump on this trend.

References

[1] Analyzing Gootkit's persistence mechanism (new ASEP inside!) - 2015-04-13 - CERTSG - <http://blog.cert.societegenerale.com/2015/04/analyzing-gootkits-persistence-mechanism.html> (<http://blog.cert.societegenerale.com/2015/04/analyzing-gootkits-persistence-mechanism.html>)

[2] Win32/Xswkit (alias Gootkit) - <http://www.kernelmode.info/forum/viewtopic.php?f=16&t=3669> (<http://www.kernelmode.info/forum/viewtopic.php?f=16&t=3669>)

[3] Fake Judicial Spam Leads to Backdoor with Fake Certificate Authority - 2015-03-30 - <http://blog.trendmicro.com/trendlabs-security-intelligence/fake-judicial-spam-leads-to-backdoor-with-fake-certificate-authority/> (<http://blog.trendmicro.com/trendlabs-security-intelligence/fake-judicial-spam-leads-to-backdoor-with-fake-certificate-authority/>)

[4] "Hey Brian, Heya Homer, fancy meeting you here!" – Zeus Gootkit, 2014 AD - 2014-08-07 - CertLexsi <https://www.lexsi.com/securityhub/hey-brian-heya-homer-fancy-meeting-you-here-zeus-gootkit-2014-ad/?lang=en> (<https://www.lexsi.com/securityhub/hey-brian-heya-homer-fancy-meeting-you-here-zeus-gootkit-2014-ad/?lang=en>)

Indicators of Compromise (IOC's)

File hashes:

6195950991475ec363f53b2c570469512b8e4a1995db73056cff39251c211dff - 2015-08-26 - CAN

a24c9996913ecbe2af183e5ac3d176f869ed62e15a31deb2dc2ea947900432c3 - 2015-11-26 - GBR

cb55bd4ee66ee8fcbda9f0f15192406bb1d089bc72a0f121395fafc8e04cb0e8 - 2015-12-02 - CAN

532bd85487ce3c16654d21c6425f6f728430d50e47e802b332ea82ae0511adca - 2015-12-13 - GBR

3922F2317BE8D0420F1DC938A633B3243D938FC0098A528D70B89C2D2F080C5C - 2015-12-21 - ITA

C2 server addresses:

swysocki77.com - 138.204.171.103

gorski83.com

ostrowski87.com

jasinski2015.com

olszewski78.com

pozheeshebudem.com

freforevermailtes.com

nidermidertom.com

ecuremailbestfree.com

securewebgooglesite.com

robertpouslen12494.pw - 151.80.201.187

robertpouslen1234524.com

update-service7825t28.com

domolor.com - 108.61.178.212

babosikimne.com - 81.2.241.227

babosikidai.com - 185.86.149.224

vaillantsawer.com - 198.96.89.181 185.82.202.38

proballansmen.com

reputamadrell.com

lastrizariano.com

rokobarokkino.com

artipreambulo.com

trequablaster.com

pretriquestro.com

rebellintosto.com

mellicianactr.com

abc.doitgraphic.org - 198.71.232.3

updatebase.bid

shop.lifexcellence.org

ET Open and Pro rules:

2022257 || ET TROJAN Possible Gootkit CnC SSL Cert M5

2022256 || ET TROJAN Possible Gootkit CnC SSL Cert M4

2022259 || ET TROJAN Possible Gootkit CnC SSL Cert M7

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