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CERRID File # 1275133

SECRET/REL TO CAN, AUS, GER, NZ., and USA

CDR-28-40113-01

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This report contains information from recognized private communications. The report is provided to the recipient on the understanding that the report is essential to identify, isolate, or prevent harm to Government of Canada computer systems or networks, and is therefore intended for Canadian Government use only.

INTRODUCTION

- (U) This is a report on cyber-security threats to Government of Canada (GC) systems, produced by the Cyber Threat Evaluation Centre (CTEC). The report highlights the key cyber threat incidents detected for Q1 2013.
- (U) This report is based on confirmed malicious threats affecting Government of Canada systems. Other suspicious activities may have taken place but are not included in this report. Should further analysis determine that the observed suspicious activity is malicious, details will be reported at that time.
- (U) Information included in this report is based on current knowledge and available data from CSEC operations. CSEC leverages a variety of data sources on unclassified networks,

As such, care

should be exercised in making comparisons between data points.

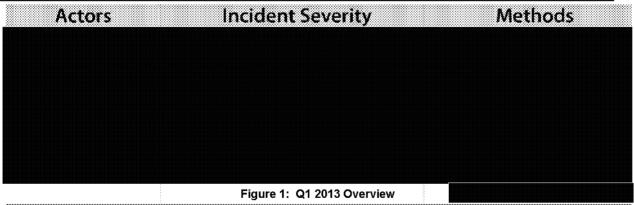
(U) Contact Information:

ctec@cse-cst.gc.ca

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SUMMARY (S//REL TO CAN, AUS, GBR, NZL, USA)







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CYBER THREAT ACTORS

(U) Q1 2013

(S//Rel to CAN, AUS, GBR, NZL, USA)

Figure 3: Cyber Threat Actors – Q1 2013

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SEVERITY OF INCIDENTS



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COMMONLY DETECTED THREAT VECTORS

(U) Q1 2013

(S//Rel to CAN, AUS, GBR, NZL, USA) The most common threat vector this quarter was spear-phishing email

(S//Rel to CAN, AUS, GBR, NZL, USA)

(S//Rel to CAN, AUS, GBR, NZL, USA)

(S//Rel to CAN, AUS, GBR, NZL, USA) Please see Annex 2 for Common Vulnerabilities and Exposures (CVE) information relevant to the incidents reported this quarter.

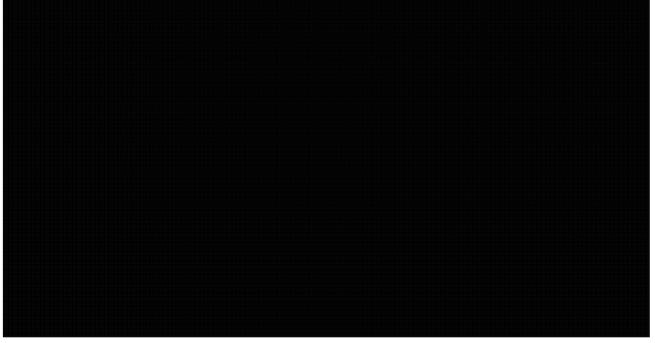


Figure 5: Commonly Detected Threat Vectors - Q4 2012

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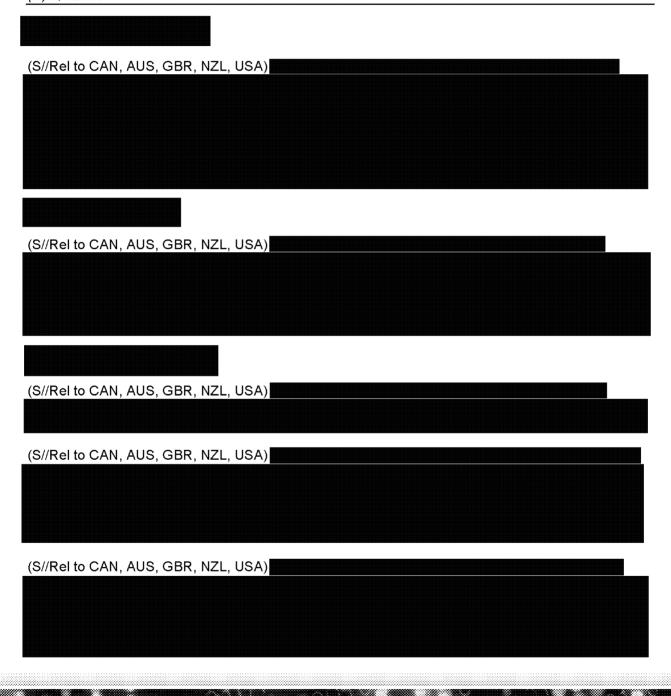
CYBER-SECURITY HIGHLIGHTS

(U) Q1 2013
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(S//Rel to CAN, AUS, GBR, NZL, USA)
(S//Rel to CAN, AUS, GBR, NZL, USA)

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CYBER-SECURITY HIGHLIGHTS (CONTINUED)

(U) Q1 2013



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COMMUNICATIONS SECURITY ESTABLISHMENT CANADA CYBER THREAT EVALUATION CENTRE

CYBER-SECURITY HIGHLIGHTS (CONTINUED)

(U) Q1 2013

(S//Rel to CAN, AUS, GBR, NZL, USA)	
(S//Rel to CAN, AUS, GBR, NZL, USA)	
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CYBER-SECURITY HIGHLIGHTS (CONTINUED) (U) Q1 2013 (S//Rel to CAN, AUS, GBR, NZL, USA) (S//Rel to CAN, AUS, GBR, NZL, USA)

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CYBER-SECURITY HIGHLIGHTS (CONTINUED) (U) Q1 2013

(S//Rel to CAN, AUS, GBR, NZL, USA)

ACTIVITIES MOST OFTEN RELATED TO CRIMINAL INTENT (S//REL TO CAN, AUS, GBR, NZL, USA)

Please note that 'cybercrime' activity is tracked and reported separately from foreign state-sponsored activity. The number of 'cybercrime' incidents being reported continues to rise as detection tradecraft improves.

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Cyberdine

Cyberdine

Exploit Kits & Botnets

Number of Affected Departments/Sector

Figure 6: Q4 'cybercrime' Overview

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Cyber activity most often related to criminal intent resulted in this quarter. The majority of related 'cybercrime' tools (for the most part exploit kits and botnets) exploit known vulnerabilities, indicating that timely patching of GC systems may aid in decreasing the number of compromises. Possible consequences of compromise are: theft of login credentials, theft of protected data, and downloads of ransomware, malware, or trojans. Exploit kits are continuously effective against GC systems because of their constantly evolving nature. They take advantage of common vulnerabilities, allow for customizable implants, and are often inexpensive, making them appealing to a variety of threat actors.

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CYBER THREAT ACTOR TRADECRAFT

(U) Q1 2013

(S//Rel to CAN, AUS, GBR, NZL, USA) The top five malicious domains observed in 2013 to-date are shown in the table below.

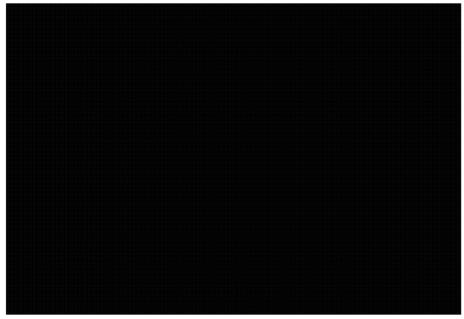


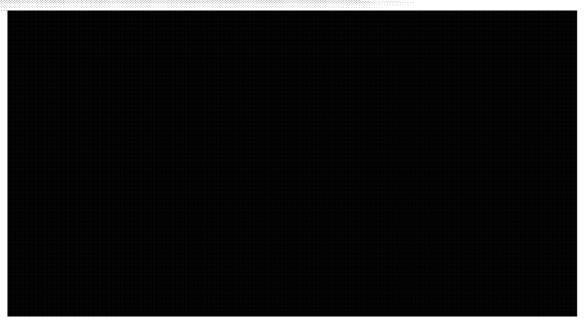
Table 1: Top 5 Malicious Domains – 2013

IMPLANTS & MALWARE

(U) Q1 2013

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GC Sectors Affected:

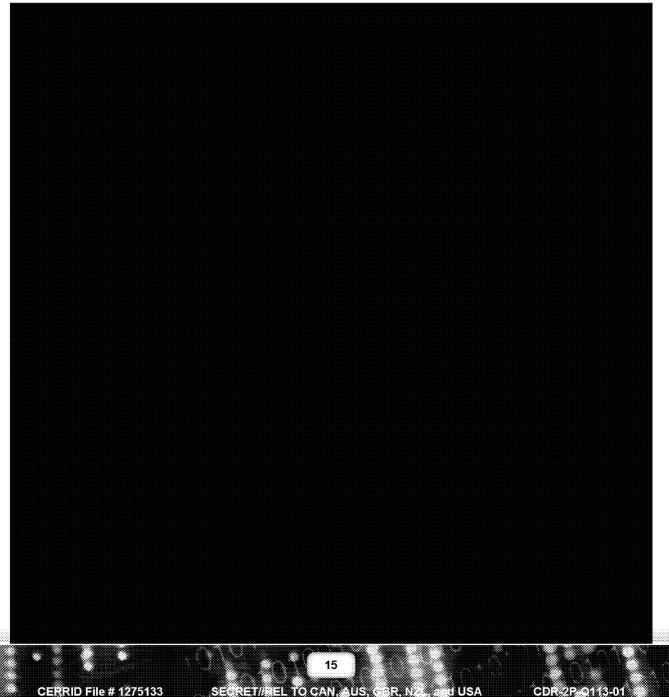


Figure 7: Implants Detected in Cyber Threat Incidents - Q1 2013



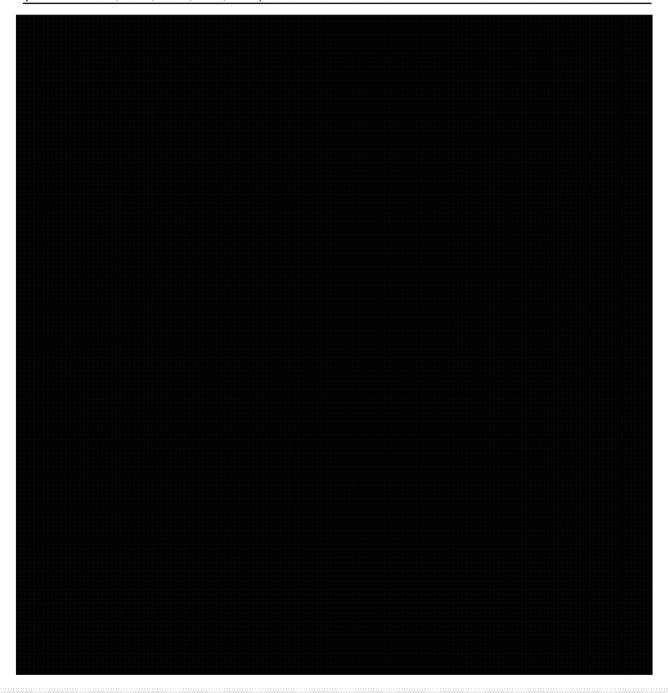
ANNEX 1 SUMMARY OF MALICIOUS DOMAIN NAMES, URLs, & IP ADDRESSES AFFECTING GC **SYSTEMS**

(S//Rel to CAN, AUS, GBR, NZL, USA) Q1 2013



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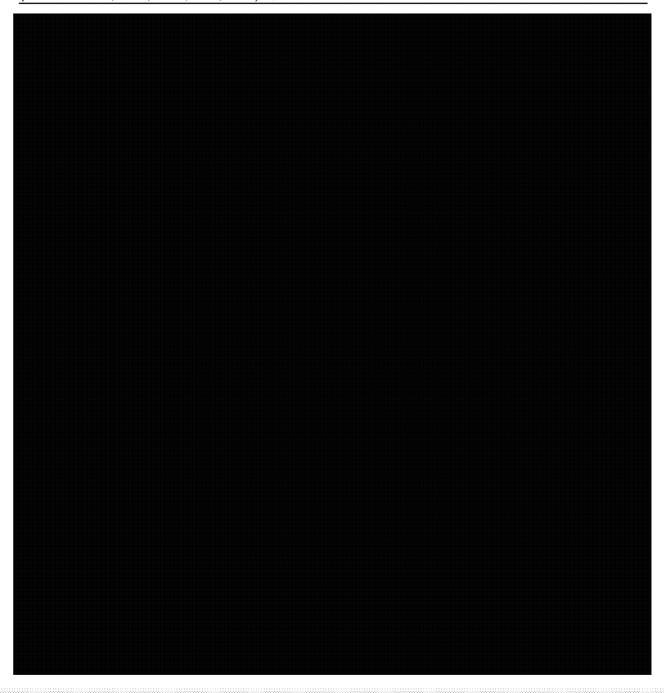
ANNEX 1 (CONTINUED)
(S//Rel to CAN, AUS, GBR, NZL, USA) Q1 2013



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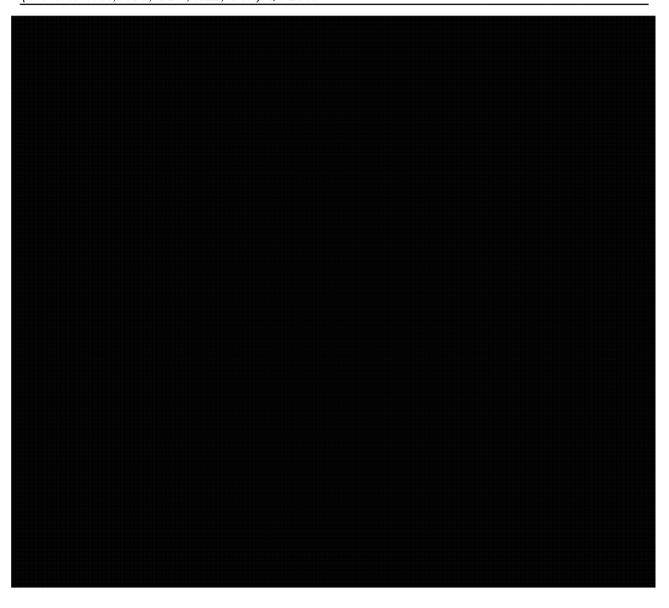
ANNEX 1 (CONTINUED) (S//Rel to CAN, AUS, GBR, NZL, USA) Q1 2013



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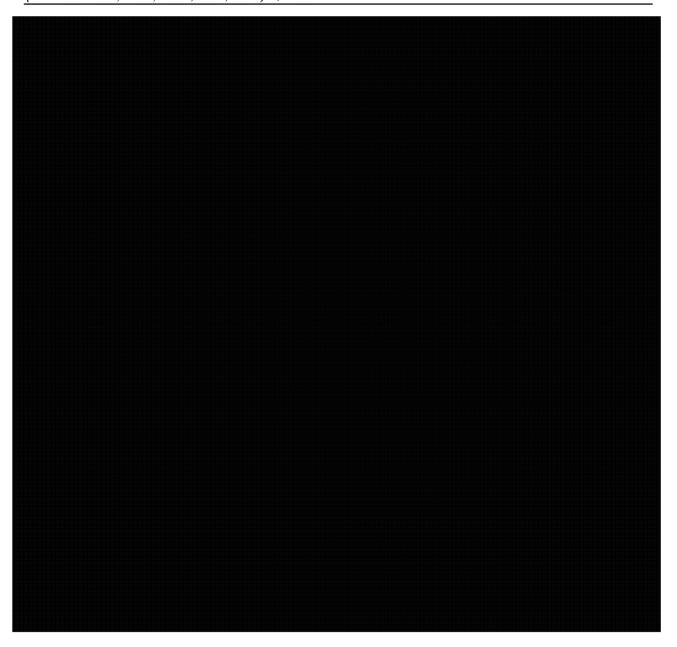
ANNEX 1 (CONTINUED) (S//Rel to CAN, AUS, GBR, NZL, USA) Q1 2013



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ANNEX 2 COMMON VULNERABILITIES & EXPOSURES (CVE) REFERENCE

(S//Rel to CAN, AUS, GBR, NZL, USA) Q1 2013



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ANNEX 3 REFERENCE MATERIAL

(S//Rel to CAN, AUS, GBR, NZL, USA) Q1 2013

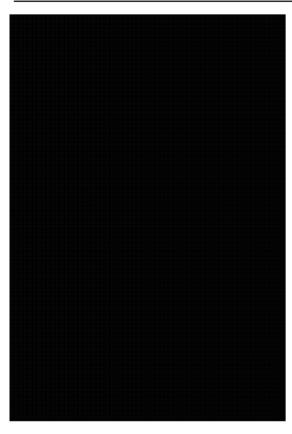
The following reference materials can be found on CSEC's

- Lexicon of terms used in this report:
- Government of Canada Departments by Sector:
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