the Foreign Intelligence Surveillance Act (FISA) (see Annex A) will not be collected for training purposes.

SECTION 3 - (U) PROCEDURES

(U) Training Guidance

G3.1. (U) The training of USSS personnel in the operation and use of SIGINT collection and other surveillance equipment shall include guidance concerning the requirements and restrictions of the FISA, Executive Order 12333, and this USSID.

G3.2. (U) The use of SIGINT collection and other surveillance equipment for training purposes is subject to the following limitations:

a. (U) To the maximum extent practical, use of such equipment for training purposes shall be directed against otherwise authorized intelligence targets;

b. (U) The contents of private communications of nonconsenting U.S. persons may not be acquired unless the person is an authorized target of electronic surveillance; and

c. (U) The electronic surveillance will be limited in extent and duration to that necessary to train personnel in the use of the equipment.

G3.3. (U) The limitations in paragraph G3.2. do not apply in the following instances:

a. (U) Public broadcasts, distress signals, or official United States Government communications may be monitored, provided that, where government agency communications are monitored, the consent of an appropriate official is obtained; and

b. (U) Minimal acquisition of information is permitted as required for calibration purposes.

G3.4. (U) Information collected during training that involves authorized intelligence targets may be retained in accordance with Section 6 of this USSID and disseminated in accordance with Section 7 of this USSID. Information other than distress signals collected during training that does not involve authorized intelligence targets or that is acquired inadvertently shall be destroyed as soon as practical or upon completion of the training and may not be disseminated outside the USSS for any purpose. Distress signals should be referred to the SIGINT Director.
ANNEX H - (U) CONSENT FORMS

SECTION 1 - (U) PURPOSE

(U) Forms

H1.1. (U) The forms set forth in this Annex have been approved by the National Security Agency’s Office of General Counsel (NSA OGC) to obtain and record the express consent of a U.S. person for elements of the United States SIGINT System (USSS) to collect and disseminate communications of or concerning that person for foreign intelligence purposes, to include but not limited to force protection, hostage recovery, and other like purposes.

H1.2. (U/FOOU) Forms 1 and 2 can be used to obtain and record consent to collect and disseminate a U.S. person’s communications as well as references to the U.S. person in communications. Forms 3 and 4 only provide consent to collect and disseminate references to the U.S. person but neither Form 3 nor Form 4 provides consent to collect communications to or from the U.S. person who has executed the form. Each form contained in this Annex may be reproduced, provided the security classifications (top and bottom) are removed. It is the responsibility of the user to properly reclassify the consent form that is suitable to the user’s purposes in accordance with requisite security guidelines and operational considerations of the customer whom the USSS is supporting.

H1.3. (U) Section 4.1.c. of United States Signals Intelligence Directive SP0018 states that the Director of NSA (DIRNSA) has authority to approve the consensual collection of communications to, from, or about U.S. persons. Elements of the USSS proposing to conduct consensual collection should forward a copy of the executed consent form and any pertinent information to the DIRNSA (or to the Senior Operations Officer of the National Security Operations Center) for approval of the proposed consensual collection activity. NSA OGC must also be notified promptly of the proposed collection activity.

H1.4. (U) If operational circumstances dictate, consent may be obtained orally or may be recorded on a form other than one of the forms contained in this Annex. However, any other form or method that is used to obtain and record a U.S. person’s consent for elements of the USSS to collect and disseminate communications of or concerning that person must be reviewed and approved by NSA OGC.

CONSENT FORM 1
NSA SIGNALS INTELLIGENCE CONSENT AGREEMENT

I, ____________________________, hereby consent to the National Security Agency or other elements of the United States Signals Intelligence System undertaking to seek and disseminate communications to, from, or referencing me for the purpose of:

________________________________________________________________________

________________________________________________________________________

I understand that, unless specified otherwise in the purpose above, communications to, from, or referencing me may be sought and disseminated while I am in the U.S. during the effective period of my consent. This consent applies to administrative messages alerting elements of the United States Signals Intelligence System to this consent, as well as to any signals intelligence reports that may relate to the purpose stated above.

Except as otherwise provided by law, to include procedures under Executive Order 12333, this consent covers only information that relates to the purpose stated above and is effective for the period:

________________________________________________________________________

Signals intelligence reports containing information derived from communications to, from, or referencing me may only be disseminated to me and to ____________________________, and to others as specified by the U.S. Government as otherwise permitted by law, to include procedures under Executive Order 12333.

________________________________________________________________________

Signature

Date

Title

PRIVACY ACT STATEMENT: Authority for collecting information is contained in Section 6 of the National Security Agency Act of 1959, Public Law 86-36, codified at 50 U.S.C. 402 note; Executive Order (E.O.) 12333, as amended; and E.O. 13526. NSA's Blanket Routine Uses found at 58 Fed. Reg. 10,531 (1993) and the specific uses found in GNSA 18 apply to this information. Disclosure of requested information is voluntary but refusal to provide requested information may prevent NSA from effecting this consent form.
CONSENT FORM 2

CONSENT AGREEMENT

I, ___________________________, hereby consent to the U.S. Government undertaking to seek and disseminate communications to, from, or referencing me for the purpose of:

________________________________________

I understand that, unless specified otherwise in the purpose above, communications to, from, or referencing me may be sought and disseminated while I am in the U.S. during the effective period of my consent. This consent applies to administrative messages alerting elements of the U.S. Government to this consent, as well as to any reports that may relate to the purpose stated above.

Except as otherwise provided by law, to include applicable U.S. Government procedures, this consent covers only information that relates to the purpose stated above and is effective for the period:

________________________________________

to _____________________________________________.

Reports containing information derived from communications to, from, or referencing me may only be disseminated to me and to ___________________________ ____________________________, and to others as specified by the U.S. government as otherwise permitted by law, to include applicable U.S. Government procedures.

________________________________________

Signature

Date

________________________________________

Title

PRIVACY ACT STATEMENT: Authority for collecting information is contained in Executive Order 12333, as amended; and procedures issued thereto. The Department of Defense Blanket Routine Uses found at:

http://privacy.defense.gov/blank_et_uses.shtml

apply to this information. Disclosure of requested information is voluntary but refusal to provide requested information may prevent completion of actions to effect this consent form.
CONSENT FORM 3

NSA SIGNALS INTELLIGENCE CONSENT AGREEMENT

I, _____________________________, hereby consent to the National Security Agency or other elements of the United States Signals Intelligence System undertaking to seek and disseminate communications referencing me for the purpose of:

____________________________________  ______________________________________

____________________________________  ______________________________________

I understand that, unless specified otherwise in the purpose above, communications referencing me may be sought and disseminated while I am in the U.S. during the effective period of my consent. This consent applies to administrative messages alerting elements of the United States Signals Intelligence System to this consent, as well as to any signals intelligence reports that may relate to the purpose stated above.

Except as otherwise provided by law, to include procedures under Executive Order 12333, this consent covers only references to me in foreign communications and information therefrom that relates to the purpose stated above and is effective for the period:

____________________________________  to  ______________________________________

Signals intelligence reports containing information derived from foreign communications referencing me may only be disseminated to me and to _____________________________, and to others as specified by the U.S. Government as otherwise permitted by law, to include procedures under Executive Order 12333.

____________________________________  
Signature

____________________________________  
Date

____________________________________  
Title

PRIVACY ACT STATEMENT: Authority for collecting information is contained in Section 6 of the National
CONSENT FORM 4

CONSENT AGREEMENT

I, ____________________________, hereby consent to the U.S. Government undertaking to seek and disseminate communications referencing me for the purpose of:


I understand that, unless specified otherwise in the purpose above, communications referencing me may be sought and disseminated while I am in the U.S. during the effective period of my consent. This consent applies to administrative messages alerting elements of the U.S. Government to this consent, as well as to any reports that may relate to the purpose stated above.

Except as otherwise provided by law, to include applicable U.S. Government procedures, this consent covers only references to me in foreign communications and information therefrom that relates to the purpose stated above and is effective for the period:


Reports containing information derived from foreign communications referencing me may only be disseminated to me and to ____________________________, and to others as specified by the U.S. government as otherwise permitted by law, to include applicable U.S. Government procedures.


Signature Date

Title

PRIVACY ACT STATEMENT: Authority for collecting information is contained in Executive Order 12333, as
amended; and procedures issued thereto. The Department of Defense Blanket Routine Uses found at:

http://privacy.defense.gov/blank_et_uses.shtml

apply to this information. Disclosure of requested information is voluntary but refusal to provide requested
information may prevent completion of actions to effect this consent form.

USSID SP0018

ANNEX I - (U) FORM FOR CERTIFICATION OF OPENLY
ACKNOWLEDGED ENTITIES

SECTION 1 - CERTIFICATION FORM

(U) Certification Form

II.1. (U) The form below should be used for Director approvals for the
collection of communications of entities that are openly acknowledged to be
directed and controlled by a foreign power as specified in Section 4 of this
USSID.

DIRECTOR, NSA/CHIEF, CSS

Certification for Openly Acknowledged Entities Under
Section 4.A.1.(b) of the Classified Annex
to DOD 5240.1R

Certification to the Attorney General:

(S/SL/REL) The Director, NSA, hereby certifies that
located in the United States and openly acknowledged to
be directed and controlled by (Government X), is a new target of collection.
The purpose of the surveillance is (to collect intelligence regarding Government X) in accordance with valid intelligence requirements. The surveillance will entail intentional interception or deliberate selection of the target’s international communications. Standard minimization procedures will be applied to any information collected that relates to U.S. persons.

________________________________________

Director, NSA/Chief, CSS

Copy to: Deputy Secretary of Defense
Exhibit 6
JOINT ANALYSIS REPORT

DISCLAIMER: This report is provided “as is” for informational purposes only. The Department of Homeland Security (DHS) does not provide any warranties of any kind regarding any information contained within. DHS does not endorse any commercial product or service referenced in this advisory or otherwise. This document is distributed as TLP:WHITE: Subject to standard copyright rules, TLP:WHITE information may be distributed without restriction. For more information on the Traffic Light Protocol, see https://www.us-cert.gov/tp.

Reference Number: JAR-16-20296A

December 29, 2016

GRIZZLY STEPPE – Russian Malicious Cyber Activity

Summary

This Joint Analysis Report (JAR) is the result of analytic efforts between the Department of Homeland Security (DHS) and the Federal Bureau of Investigation (FBI). This document provides technical details regarding the tools and infrastructure used by the Russian civilian and military intelligence Services (RIS) to compromise and exploit networks and endpoints associated with the U.S. election, as well as a range of U.S. Government, political, and private sector entities. The U.S. Government is referring to this malicious cyber activity by RIS as GRIZZLY STEPPE.

Previous JARs have not attributed malicious cyber activity to specific countries or threat actors. However, public attribution of these activities to RIS is supported by technical indicators from the U.S. Intelligence Community, DHS, FBI, the private sector, and other entities. This determination expands upon the Joint Statement released October 7, 2016, from the Department of Homeland Security and the Director of National Intelligence on Election Security.

This activity by RIS is part of an ongoing campaign of cyber-enabled operations directed at the U.S. government and its citizens. These cyber operations have included spearphishing campaigns targeting government organizations, critical infrastructure entities, think tanks, universities, political organizations, and corporations leading to the theft of information. In foreign countries, RIS actors conducted damaging and/or disruptive cyber-attacks, including attacks on critical infrastructure networks. In some cases, RIS actors masqueraded as third parties, hiding behind false online personas designed to cause the victim to misattribute the source of the attack. This JAR provides technical indicators related to many of these operations, recommended mitigations, suggested actions to take in response to the indicators provided, and information on how to report such incidents to the U.S. Government.
Description

The U.S. Government confirms that two different RIS actors participated in the intrusion into a U.S. political party. The first actor group, known as Advanced Persistent Threat (APT) 29, entered into the party’s systems in summer 2015, while the second, known as APT28, entered in spring 2016.

Both groups have historically targeted government organizations, think tanks, universities, and corporations around the world. APT29 has been observed crafting targeted spearphishing campaigns leveraging web links to a malicious dropper; once executed, the code delivers Remote Access Tools (RATs) and evades detection using a range of techniques. APT28 is known for leveraging domains that closely mimic those of targeted organizations and tricking potential victims into entering legitimate credentials. APT28 actors relied heavily on shortened URLs in their spearphishing email campaigns. Once APT28 and APT29 have access to victims, both groups exfiltrate and analyze information to gain intelligence value. These groups use this information to craft highly targeted spearphishing campaigns. These actors set up operational infrastructure to obfuscate their source infrastructure, host domains and malware for targeting organizations, establish command and control nodes, and harvest credentials and other valuable information from their targets.

In summer 2015, an APT29 spearphishing campaign directed emails containing a malicious link to over 1,000 recipients, including multiple U.S. Government victims. APT29 used legitimate
domains, to include domains associated with U.S. organizations and educational institutions, to host malware and send spearphishing emails. In the course of that campaign, APT29 successfully compromised a U.S. political party. At least one targeted individual activated links to malware hosted on operational infrastructure of opened attachments containing malware. APT29 delivered malware to the political party’s systems, established persistence, escalated privileges, enumerated active directory accounts, and exfiltrated email from several accounts through encrypted connections back through operational infrastructure.

In spring 2016, APT28 compromised the same political party, again via targeted spearphishing. This time, the spearphishing email tricked recipients into changing their passwords through a fake webmail domain hosted on APT28 operational infrastructure. Using the harvested credentials, APT28 was able to gain access and steal content, likely leading to the exfiltration of information from multiple senior party members. The U.S. Government assesses that information was leaked to the press and publicly disclosed.

![Figure 2: APT28's Use of Spearphishing and Stolen Credentials](image)

Actors likely associated with RIS are continuing to engage in spearphishing campaigns, including one launched as recently as November 2016, just days after the U.S. election.
### Reported Russian Military and Civilian Intelligence Services (RIS)

<table>
<thead>
<tr>
<th>Alternate Names</th>
</tr>
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<tbody>
<tr>
<td>APT28</td>
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<tr>
<td>APT29</td>
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<tr>
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</tr>
<tr>
<td>BlackEnergy V3</td>
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<tr>
<td>BlackEnergy2 APT</td>
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<tr>
<td>CakeDuke</td>
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<td>Carberp</td>
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<td>CHOPSTICK</td>
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<td>CosmicDuke</td>
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<tr>
<td>CrouchingYeti</td>
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<td>PinchDuke</td>
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<td>Powershell backdoor</td>
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<td>Quedagh</td>
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<td>Sandworm</td>
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<td>SOURFACE</td>
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<tr>
<td>SYNful Knock</td>
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<tr>
<td>Tiny Baron</td>
</tr>
<tr>
<td>Tsar Team</td>
</tr>
<tr>
<td>twain_64.dll (64-bit X-Agent implant)</td>
</tr>
<tr>
<td>VmUpgradeHelper.exe (X-Tunnel implant)</td>
</tr>
<tr>
<td>Waterbug</td>
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<tr>
<td>X-Agent</td>
</tr>
</tbody>
</table>
Technical Details

Indicators of Compromise (IOCs)
IOCs associated with RIS cyber actors are provided within the accompanying .csv and .stix files of JAR-16-20296.

Yara Signature
rule PAS_TOOL_PHP_WEB_KIT
{
  meta:
    description = "PAS TOOL PHP WEB KIT FOUND"
  strings:
    $php = "<?php"
    $base64decode = /\=\bbase\.(d+/\*d+)/\_de\.(code)="/\
    $strreplace = "(str_replace(""
    $md5 = "\substr(md5(strrev(""
    $gzinflate = "gzinflate"
    $cookie = "\COOKIE"
    $isset = "isset"
  condition:
    (filesize > 20KB and filesize < 22KB) and
    #cookie == 2 and
    #isset == 3 and
    all of them
}
Network administrators are encouraged to check their public-facing websites for the malicious file hashes. System owners are also advised to run the Yara signature on any system that is suspected to have been targeted by RIS actors.

**Threats from IOCs**
Malicious actors may use a variety of methods to interfere with information systems. Some methods of attack are listed below. Guidance provided is applicable to many other computer networks.

- **Injection Flaws** are broad web application attack techniques that attempt to send commands to a browser, database, or other system, allowing a regular user to control behavior. The most common example is SQL injection, which subverts the relationship between a webpage and its supporting database, typically to obtain information contained inside the database. Another form is command injection, where an untrusted user is able to send commands to operating systems supporting a web application or database. See the United States Computer Emergency Readiness Team (US-CERT) Publication on SQL Injection for more information.

- **Cross-site scripting (XSS) vulnerabilities** allow threat actors to insert and execute unauthorized code in web applications. Successful XSS attacks on websites can provide the attacker unauthorized access. For prevention and mitigation strategies against XSS, see US-CERT’s Alert on Compromised Web Servers and Web Shells.

- **Server vulnerabilities** may be exploited to allow unauthorized access to sensitive information. An attack against a poorly configured server may allow an adversary access to critical information including any websites or databases hosted on the server. See US-CERT’s Tip on Website Security for additional information.

**Recommended Mitigations**

**Commit to Cybersecurity Best Practices**
A commitment to good cybersecurity and best practices is critical to protecting networks and systems. Here are some questions you may want to ask your organization to help prevent and mitigate against attacks.

1. **Backups**: Do we backup all critical information? Are the backups stored offline? Have we tested our ability to revert to backups during an incident?
2. **Risk Analysis**: Have we conducted a cybersecurity risk analysis of the organization?
3. **Staff Training**: Have we trained staff on cybersecurity best practices?
4. **Vulnerability Scanning & Patching**: Have we implemented regular scans of our network and systems and appropriate patching of known system vulnerabilities?
5. **Application Whitelisting**: Do we allow only approved programs to run on our networks?
6. **Incident Response**: Do we have an incident response plan and have we practiced it?
7. **Business Continuity**: Are we able to sustain business operations without access to certain systems? For how long? Have we tested this?

8. **Penetration Testing**: Have we attempted to hack into our own systems to test the security of our systems and our ability to defend against attacks?

---

**Top Seven Mitigation Strategies**

DHS encourages network administrators to implement the recommendations below, which can prevent as many as 85 percent of targeted cyber-attacks. These strategies are common sense to many, but DHS continues to see intrusions because organizations fail to use these basic measures.

1. **Patch applications and operating systems** – Vulnerable applications and operating systems are the targets of most attacks. Ensuring these are patched with the latest updates greatly reduces the number of exploitable entry points available to an attacker. Use best practices when updating software and patches by only downloading updates from authenticated vendor sites.

2. **Application whitelisting** – Whitelisting is one of the best security strategies because it allows only specified programs to run while blocking all others, including malicious software.

3. **Restrict administrative privileges** – Threat actors are increasingly focused on gaining control of legitimate credentials, especially those associated with highly privileged accounts. Reduce privileges to only those needed for a user’s duties. Separate administrators into privilege tiers with limited access to other tiers.

4. **Network Segmentation and Segregation into Security Zones** – Segment networks into logical enclaves and restrict host-to-host communications paths. This helps protect sensitive information and critical services and limits damage from network perimeter breaches.

5. **Input validation** – Input validation is a method of sanitizing untrusted user input provided by users of a web application, and may prevent many types of web application security flaws, such as SQLi, XSS, and command injection.

6. **File Reputation** – Tune Anti-Virus file reputation systems to the most aggressive setting possible; some products can limit execution to only the highest reputation files, stopping a wide range of untrustworthy code from gaining control.

7. **Understanding firewalls** – When anyone or anything can access your network at any time, your network is more susceptible to being attacked. Firewalls can be configured to block data from certain locations (IP whitelisting) or applications while allowing relevant and necessary data through.
Responding to Unauthorized Access to Networks

Implement your security incident response and business continuity plan. It may take time for your organization’s IT professionals to isolate and remove threats to your systems and restore normal operations. Meanwhile, you should take steps to maintain your organization’s essential functions according to your business continuity plan. Organizations should maintain and regularly test backup plans, disaster recovery plans, and business continuity procedures.

Contact DHS or law enforcement immediately. We encourage you to contact DHS NCCIC (NCCICCustomerService@hq.dhs.gov or 888-282-0870), the FBI through a local field office or the FBI’s Cyber Division (CyWatch@ic.fbi.gov or 855-292-3937) to report an intrusion and to request incident response resources or technical assistance.

Detailed Mitigation Strategies

Protect Against SQL Injection and Other Attacks on Web Services
Routine evaluation of known and published vulnerabilities, perform software updates and technology refreshes periodically, and audit external-facing systems for known Web application vulnerabilities. Take steps to harden both Web applications and the servers hosting them to reduce the risk of network intrusion via this vector.¹

- Use and configure available firewalls to block attacks.
- Take steps to further secure Windows systems such as installing and configuring Microsoft’s Enhanced Mitigation Experience Toolkit (EMET) and Microsoft AppLocker.
- Monitor and remove any unauthorized code present in any www directories.
- Disable, discontinue, or disallow the use of Internet Control Message Protocol (ICMP) and Simple Network Management Protocol (SNMP) and response to these protocols as much as possible.
- Remove non-required HTTP verbs from Web servers as typical Web servers and applications only require GET, POST, and HEAD.
- Where possible, minimize server fingerprinting by configuring Web servers to avoid responding with banners identifying the server software and version number.
- Secure both the operating system and the application.
- Update and patch production servers regularly.
- Disable potentially harmful SQL-stored procedure calls.
- Sanitize and validate input to ensure that it is properly typed and does not contain escaped code.
- Consider using type-safe stored procedures and prepared statements.
- Perform regular audits of transaction logs for suspicious activity.
- Perform penetration testing against Web services.
- Ensure error messages are generic and do not expose too much information.

Phishing and Spearphishing

- Implement a Sender Policy Framework (SPF) record for your organization’s Domain Name System (DNS) zone file to minimize risks relating to the receipt of spoofed messages.
- Educate users to be suspicious of unsolicited phone calls, social media interactions, or email messages from individuals asking about employees or other internal information. If an unknown individual claims to be from a legitimate organization, try to verify his or her identity directly with the company.
- Do not provide personal information or information about your organization, including its structure or networks, unless you are certain of a person’s authority to have the information.
- Do not reveal personal or financial information in social media or email, and do not respond to solicitations for this information. This includes following links sent in email.
- Pay attention to the URL of a website. Malicious websites may look identical to a legitimate site, but the URL often includes a variation in spelling or a different domain than the valid website (e.g., .com vs. .net).
- If you are unsure whether an email request is legitimate, try to verify it by contacting the company directly. Do not use contact information provided on a website connected to the request; instead, check previous statements for contact information. Information about known phishing attacks is also available online from groups such as the Anti-Phishing Working Group (http://www.antiphishing.org).
- Take advantage of anti-phishing features offered by your email client and web browser.
- Patch all systems for critical vulnerabilities, prioritizing timely patching of software that processes Internet data, such as web browsers, browser plugins, and document readers.

Permissions, Privileges, and Access Controls

- Reduce privileges to only those needed for a user’s duties.
- Restrict users’ ability (permissions) to install and run unwanted software applications, and apply the principle of “Least Privilege” to all systems and services. Restricting these privileges may prevent malware from running or limit its capability to spread through the network.
- Carefully consider the risks before granting administrative rights to users on their own machines.
- Scrub and verify all administrator accounts regularly.
- Configure Group Policy to restrict all users to only one login session, where possible.
- Enforce secure network authentication where possible.
- Instruct administrators to use non-privileged accounts for standard functions such as Web browsing or checking Web mail.
• Segment networks into logical enclaves and restrict host-to-host communication paths. Containment provided by enclaving also makes incident cleanup significantly less costly.
• Configure firewalls to disallow RDP traffic coming from outside of the network boundary, except for in specific configurations such as when tunneled through a secondary VPN with lower privileges.
• Audit existing firewall rules and close all ports that are not explicitly needed for business. Specifically, carefully consider which ports should be connecting outbound versus inbound.
• Enforce a strict lockout policy for network users and closely monitor logs for failed login activity. This can be indicative of failed intrusion activity.
• If remote access between zones is an unavoidable business need, log and monitor these connections closely.
• In environments with a high risk of interception or intrusion, organizations should consider supplementing password authentication with other forms of authentication such as challenge/response or multifactor authentication using biometric or physical tokens.

**Credentials**

• Enforce a tiered administrative model with dedicated administrator workstations and separate administrative accounts that are used exclusively for each tier to prevent tools, such as Mimikatz, for credential theft from harvesting domain-level credentials.
• Implement multi-factor authentication (e.g., smart cards) or at minimum ensure users choose complex passwords that change regularly.
• Be aware that some services (e.g., FTP, telnet, and .rlogin) transmit user credentials in clear text. Minimize the use of these services where possible or consider more secure alternatives.
• Properly secure password files by making hashed passwords more difficult to acquire. Password hashes can be cracked within seconds using freely available tools. Consider restricting access to sensitive password hashes by using a shadow password file or equivalent on UNIX systems.
• Replace or modify services so that all user credentials are passed through an encrypted channel.
• Avoid password policies that reduce the overall strength of credentials. Policies to avoid include lack of password expiration date, lack of lockout policy, low or disabled password complexity requirements, and password history set to zero.
• Ensure that users are not re-using passwords between zones by setting policies and conducting regular audits.
• Use unique passwords for local accounts for each device.
Logging Practices

- Ensure event logging (applications, events, login activities, security attributes, etc.) is turned on or monitored for identification of security issues.
- Configure network logs to provide enough information to assist in quickly developing an accurate determination of a security incident.
- Upgrade PowerShell to new versions with enhanced logging features and monitor the logs to detect usage of PowerShell commands, which are often malware-related.
- Secure logs, potentially in a centralized location, and protect them from modification.
- Prepare an incident response plan that can be rapidly implemented in case of a cyber intrusion.

How to Enhance Your Organization’s Cybersecurity Posture

DHS offers a variety of resources for organizations to help recognize and address their cybersecurity risks. Resources include discussion points, steps to start evaluating a cybersecurity program, and a list of hands-on resources available to organizations. For a list of services, visit [https://www.us-cert.gov/ccubedvp](https://www.us-cert.gov/ccubedvp). Other resources include:

- **The Cyber Security Advisors (CSA)** program bolsters cybersecurity preparedness, risk mitigation, and incident response capabilities of critical infrastructure entities and more closely aligns them with the Federal Government. CSAs are DHS personnel assigned to districts throughout the country and territories, with at least one advisor in each of the 10 CSA regions, which mirror the Federal Emergency Management Agency regions. For more information, email cyberadvisor@hq.dhs.gov.

- **Cyber Resilience Review (CRR)** is a no-cost, voluntary assessment to evaluate and enhance cybersecurity within critical infrastructure sectors, as well as state, local, tribal, and territorial governments. The goal of the CRR is to develop an understanding and measurement of key cybersecurity capabilities to provide meaningful indicators of an entity’s operational resilience and ability to manage cyber risk to critical services during normal operations and times of operational stress and crisis. Visit [https://www.cert.org/resilience/rmm.html](https://www.cert.org/resilience/rmm.html) to learn more about the CERT Resilience Management Model.

- **Enhanced Cybersecurity Services (ECS)** helps critical infrastructure owners and operators protect their systems by sharing sensitive and classified cyber threat information with Commercial Service Providers (CSPs) and Operational Implementers (OIs). CSPs then use the cyber threat information to protect CI customers. OIs use the threat information to protect internal networks. For more information, email ECS_Program@hq.dhs.gov.

- **The Cybersecurity Information Sharing and Collaboration Program (CISCP)** is a voluntary information-sharing and collaboration program between and among critical
infrastructure partners and the Federal Government. For more information, email CISCP@us-cert.gov.

- **The Automated Indicator Sharing (AIS)** initiative is a DHS effort to create a system where as soon as a company or federal agency observes an attempted compromise, the indicator will be shared in real time with all of our partners, protecting them from that particular threat. That means adversaries can only use an attack once, which increases their costs and ultimately reduces the prevalence of cyber-attacks. While AIS will not eliminate sophisticated cyber threats, it will allow companies and federal agencies to concentrate more on them by clearing away less sophisticated attacks.

AIS participants connect to a DHS-managed system in the NCCIC that allows bidirectional sharing of cyber threat indicators. A server housed at each participant’s location allows each to exchange indicators with the NCCIC. Participants will not only receive DHS-developed indicators, but can share indicators they have observed in their own network defense efforts, which DHS will then share with all AIS participants. For more information, visit [https://www.dhs.gov/ais](https://www.dhs.gov/ais).

- **The Cybersecurity Framework (Framework)**, developed by the National Institute of Standards and Technology (NIST) in collaboration with the public and private sectors, is a tool that can improve the cybersecurity readiness of entities. The Framework enables entities, regardless of size, degree of cyber risk, or cyber sophistication, to apply principles and best practices of risk management to improve the security and resiliency of critical infrastructure. The Framework provides standards, guidelines, and practices that are working effectively today. It consists of three parts—the Framework Core, the Framework Profile, and Framework Implementation Tiers—and emphasizes five functions: Identify, Protect, Detect, Respond, and Recover. Use of the Framework is strictly voluntary. For more information, visit [https://www.nist.gov/cyberframework](https://www.nist.gov/cyberframework) or email cyberframework@nist.gov.
Contact Information

Recipients of this report are encouraged to contribute any additional information that they may have related to this threat. Include the JAR reference number (JAR-16-20296A) in the subject line of all email correspondence. For any questions related to this report, please contact NCCIC or the FBI.

**NCCIC:**
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Background to “Assessing Russian Activities and Intentions in Recent US Elections”: The Analytic Process and Cyber Incident Attribution
Background to “Assessing Russian Activities and Intentions in Recent US Elections”: The Analytic Process and Cyber Incident Attribution

“Assessing Russian Activities and Intentions in Recent US Elections” is a declassified version of a highly classified assessment that has been provided to the President and to recipients approved by the President.

- The Intelligence Community rarely can publicly reveal the full extent of its knowledge or the precise bases for its assessments, as the release of such information would reveal sensitive sources or methods and imperil the ability to collect critical foreign intelligence in the future.

- Thus, while the conclusions in the report are all reflected in the classified assessment, the declassified report does not and cannot include the full supporting information, including specific intelligence and sources and methods.

The Analytic Process

The mission of the Intelligence Community is to seek to reduce the uncertainty surrounding foreign activities, capabilities, or leaders’ intentions. This objective is difficult to achieve when seeking to understand complex issues on which foreign actors go to extraordinary lengths to hide or obfuscate their activities.

- On these issues of great importance to US national security, the goal of intelligence analysis is to provide assessments to decisionmakers that are intellectually rigorous, objective, timely, and useful, and that adhere to tradecraft standards.

- The tradecraft standards for analytic products have been refined over the past ten years. These standards include describing sources (including their reliability and access to the information they provide), clearly expressing uncertainty, distinguishing between underlying information and analysts’ judgments and assumptions, exploring alternatives, demonstrating relevance to the customer, using strong and transparent logic, and explaining change or consistency in judgments over time.

- Applying these standards helps ensure that the Intelligence Community provides US policymakers, warfighters, and operators with the best and most accurate insight, warning, and context, as well as potential opportunities to advance US national security.

Intelligence Community analysts integrate information from a wide range of sources, including human sources, technical collection, and open source information, and apply specialized skills and structured analytic tools to draw inferences informed by the data available, relevant past activity, and logic and reasoning to provide insight into what is happening and the prospects for the future.

- A critical part of the analyst’s task is to explain uncertainties associated with major judgments based on the quantity and quality of the source material, information gaps, and the complexity of the issue.

- When Intelligence Community analysts use words such as “we assess” or “we judge,” they are conveying an analytic assessment or judgment.

- Some analytic judgments are based directly on collected information; others rest on previous judgments, which serve as building blocks in rigorous analysis. In either type of judgment, the tradecraft standards outlined above ensure that analysts have an appropriate basis for the judgment.
Intelligence Community judgments often include two important elements: judgments of how likely it is that something has happened or will happen (using terms such as “likely” or “unlikely”) and confidence levels in those judgments (low, moderate, and high) that refer to the evidentiary basis, logic and reasoning, and precedents that underpin the judgments.

**Determining Attribution in Cyber Incidents**

The nature of cyberspace makes attribution of cyber operations difficult but not impossible. Every kind of cyber operation—malicious or not—leaves a trail. US Intelligence Community analysts use this information, their constantly growing knowledge base of previous events and known malicious actors, and their knowledge of how these malicious actors work and the tools that they use, to attempt to trace these operations back to their source. In every case, they apply the same tradecraft standards described in the Analytic Process above.

- Analysts consider a series of questions to assess how the information compares with existing knowledge and adjust their confidence in their judgments as appropriate to account for any alternative hypotheses and ambiguities.

- An assessment of attribution usually is not a simple statement of who conducted an operation, but rather a series of judgments that describe whether it was an isolated incident, who was the likely perpetrator, that perpetrator’s possible motivations, and whether a foreign government had a role in ordering or leading the operation.
This report is a declassified version of a highly classified assessment; its conclusions are identical to those in the highly classified assessment but this version does not include the full supporting information on key elements of the influence campaign.

Assessing Russian Activities and Intentions in Recent US Elections
This report is a declassified version of a highly classified assessment; its conclusions are identical to those in the highly classified assessment but this version does not include the full supporting information on key elements of the influence campaign.
Scope and Sourcing

Information available as of 29 December 2016 was used in the preparation of this product.

Scope

This report includes an analytic assessment drafted and coordinated among The Central Intelligence Agency (CIA), The Federal Bureau of Investigation (FBI), and The National Security Agency (NSA), which draws on intelligence information collected and disseminated by those three agencies. It covers the motivation and scope of Moscow’s intentions regarding US elections and Moscow’s use of cyber tools and media campaigns to influence US public opinion. The assessment focuses on activities aimed at the 2016 US presidential election and draws on our understanding of previous Russian influence operations. When we use the term “we” it refers to an assessment by all three agencies.

- This report is a declassified version of a highly classified assessment. This document’s conclusions are identical to the highly classified assessment, but this document does not include the full supporting information, including specific intelligence on key elements of the influence campaign. Given the redactions, we made minor edits purely for readability and flow.

We did not make an assessment of the impact that Russian activities had on the outcome of the 2016 election. The US Intelligence Community is charged with monitoring and assessing the intentions, capabilities, and actions of foreign actors; it does not analyze US political processes or US public opinion.

- New information continues to emerge, providing increased insight into Russian activities.

Sourcing

Many of the key judgments in this assessment rely on a body of reporting from multiple sources that are consistent with our understanding of Russian behavior. Insights into Russian efforts—including specific cyber operations—and Russian views of key US players derive from multiple corroborating sources.

Some of our judgments about Kremlin preferences and intent are drawn from the behavior of Kremlin-loyal political figures, state media, and pro-Kremlin social media actors, all of whom the Kremlin either directly uses to convey messages or who are answerable to the Kremlin. The Russian leadership invests significant resources in both foreign and domestic propaganda and places a premium on transmitting what it views as consistent, self-reinforcing narratives regarding its desires and redlines, whether on Ukraine, Syria, or relations with the United States.
Assessing Russian Activities and Intentions in Recent US Elections

ICA 2017-01D
6 January 2017

Key Judgments

Russian efforts to influence the 2016 US presidential election represent the most recent expression of Moscow’s longstanding desire to undermine the US-led liberal democratic order, but these activities demonstrated a significant escalation in directness, level of activity, and scope of effort compared to previous operations.

We assess Russian President Vladimir Putin ordered an influence campaign in 2016 aimed at the US presidential election. Russia’s goals were to undermine public faith in the US democratic process, denigrate Secretary Clinton, and harm her electability and potential presidency. We further assess Putin and the Russian Government developed a clear preference for President-elect Trump. We have high confidence in these judgments.

- We also assess Putin and the Russian Government aspired to help President-elect Trump’s election chances when possible by discrediting Secretary Clinton and publicly contrasting her unfavorably to him. All three agencies agree with this judgment. CIA and FBI have high confidence in this judgment; NSA has moderate confidence.

- Moscow’s approach evolved over the course of the campaign based on Russia’s understanding of the electoral prospects of the two main candidates. When it appeared to Moscow that Secretary Clinton was likely to win the election, the Russian influence campaign began to focus more on undermining her future presidency.

- Further information has come to light since Election Day that, when combined with Russian behavior since early November 2016, increases our confidence in our assessments of Russian motivations and goals.

Moscow’s influence campaign followed a Russian messaging strategy that blends covert intelligence operations—such as cyber activity—with overt efforts by Russian Government agencies, state-funded media, third-party intermediaries, and paid social media users or “trolls.” Russia, like its Soviet predecessor, has a history of conducting covert influence campaigns focused on US presidential elections that have used intelligence officers and agents and press placements to disparage candidates perceived as hostile to the Kremlin.

- Russia’s intelligence services conducted cyber operations against targets associated with the 2016 US presidential election, including targets associated with both major US political parties.

- We assess with high confidence that Russian military intelligence (General Staff Main Intelligence Directorate or GRU) used the Guccifer 2.0 persona and DCLeaks.com to release US victim data.
obtained in cyber operations publicly and in exclusives to media outlets and relayed material to WikiLeaks.

- Russian intelligence obtained and maintained access to elements of multiple US state or local electoral boards. **DHS assesses that the types of systems Russian actors targeted or compromised were not involved in vote tallying.**

- Russia's state-run propaganda machine contributed to the influence campaign by serving as a platform for Kremlin messaging to Russian and international audiences.

**We assess Moscow will apply lessons learned from its Putin-ordered campaign aimed at the US presidential election to future influence efforts worldwide, including against US allies and their election processes.**
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Russia’s Influence Campaign Targeting the 2016 US Presidential Election
Russia’s Influence Campaign Targeting the 2016 US Presidential Election

Putin Ordered Campaign To Influence US Election

We assess with high confidence that Russian President Vladimir Putin ordered an influence campaign in 2016 aimed at the US presidential election, the consistent goals of which were to undermine public faith in the US democratic process, denigrate Secretary Clinton, and harm her electability and potential presidency. We further assess Putin and the Russian Government developed a clear preference for President-elect Trump. When it appeared to Moscow that Secretary Clinton was likely to win the election, the Russian influence campaign then focused on undermining her expected presidency.

- We also assess Putin and the Russian Government aspired to help President-elect Trump’s election chances when possible by discrediting Secretary Clinton and publicly contrasting her unfavorably to him. All three agencies agree with this judgment. CIA and FBI have high confidence in this judgment; NSA has moderate confidence.

- In trying to influence the US election, we assess the Kremlin sought to advance its longstanding desire to undermine the US-led liberal democratic order, the promotion of which Putin and other senior Russian leaders view as a threat to Russia and Putin’s regime.

- Putin publicly pointed to the Panama Papers disclosure and the Olympic doping scandal as US-directed efforts to defame Russia, suggesting he sought to use disclosures to discredit the image of the United States and cast it as hypocritical.
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after the election because Moscow probably assessed it would be counterproductive to building positive relations.

We assess the influence campaign aspired to help President-elect Trump's chances of victory when possible by discrediting Secretary Clinton and publicly contrasting her unfavorably to the President-elect. When it appeared to Moscow that Secretary Clinton was likely to win the presidency the Russian influence campaign focused more on undercutting Secretary Clinton's legitimacy and crippling her presidency from its start, including by impugning the fairness of the election.

- Before the election, Russian diplomats had publicly denounced the US electoral process and were prepared to publicly call into question the validity of the results. Pro-Kremlin bloggers had prepared a Twitter campaign, #DemocracyRIP, on election night in anticipation of Secretary Clinton's victory, judging from their social media activity.

**Russian Campaign Was Multifaceted**

Moscow's use of disclosures during the US election was unprecedented, but its influence campaign otherwise followed a longstanding Russian messaging strategy that blends covert intelligence operations—such as cyber activity—with overt efforts by Russian Government agencies, state-funded media, third-party intermediaries, and paid social media users or "trolls."

- We assess that influence campaigns are approved at the highest levels of the Russian Government—particularly those that would be politically sensitive.

- Moscow's campaign aimed at the US election reflected years of investment in its capabilities, which Moscow has honed in the former Soviet states.

- By their nature, Russian influence campaigns are multifaceted and designed to be deniable because they use a mix of agents of influence, cutouts, front organizations, and false-flag operations. Moscow demonstrated this during the Ukraine crisis in 2014, when Russia deployed forces and advisers to eastern Ukraine and denied it publicly.

The Kremlin's campaign aimed at the US election featured disclosures of data obtained through Russian cyber operations; intrusions into US state and local electoral boards; and overt propaganda. Russian intelligence collection both informed and enabled the influence campaign.

**Cyber Espionage Against US Political Organizations.** Russia’s intelligence services conducted cyber operations against targets associated with the 2016 US presidential election, including targets associated with both major US political parties.

We assess Russian intelligence services collected against the US primary campaigns, think tanks, and lobbying groups they viewed as likely to shape future US policies. In July 2015, Russian intelligence gained access to Democratic National Committee (DNC) networks and maintained that access until at least June 2016.

- The General Staff Main Intelligence Directorate (GRU) probably began cyber operations aimed at the US election by March 2016. We assess that the GRU operations resulted in the compromise of the personal e-mail accounts of Democratic Party officials and political figures. By May, the GRU had exfiltrated large volumes of data from the DNC.

**Public Disclosures of Russian-Collected Data.**

We assess with high confidence that the GRU used the Guccifer 2.0 persona, DCLeaks.com, and WikiLeaks to release US victim data obtained in
cyber operations publicly and in exclusives to media outlets.

- Guccifer 2.0, who claimed to be an independent Romanian hacker, made multiple contradictory statements and false claims about his likely Russian identity throughout the election. Press reporting suggests more than one person claiming to be Guccifer 2.0 interacted with journalists.

- Content that we assess was taken from e-mail accounts targeted by the GRU in March 2016 appeared on DCLeaks.com starting in June.

We assess with high confidence that the GRU relayed material it acquired from the DNC and senior Democratic officials to WikiLeaks. Moscow most likely chose WikiLeaks because of its self-proclaimed reputation for authenticity. Disclosures through WikiLeaks did not contain any evident forgeries.

- In early September, Putin said publicly it was important the DNC data was exposed to WikiLeaks, calling the search for the source of the leaks a distraction and denying Russian “state-level” involvement.

- The Kremlin’s principal international propaganda outlet RT (formerly Russia Today) has actively collaborated with WikiLeaks. RT’s editor-in-chief visited WikiLeaks founder Julian Assange at the Ecuadorian Embassy in London in August 2013, where they discussed renewing his broadcast contract with RT, according to Russian and Western media. Russian media subsequently announced that RT had become “the only Russian media company” to partner with WikiLeaks and had received access to “new leaks of secret information.” RT routinely gives Assange sympathetic coverage and provides him a platform to denounce the United States.

These election-related disclosures reflect a pattern of Russian intelligence using hacked information in targeted influence efforts against targets such as Olympic athletes and other foreign governments. Such efforts have included releasing or altering personal data, defacing websites, or releasing e-mails.

- A prominent target since the 2016 Summer Olympics has been the World Anti-Doping Agency (WADA), with leaks that we assess to have originated with the GRU and that have involved data on US athletes.

Russia collected on some Republican-affiliated targets but did not conduct a comparable disclosure campaign.

**Russian Cyber Intrusions Into State and Local Electoral Boards.** Russian intelligence accessed elements of multiple state or local electoral boards. Since early 2014, Russian intelligence has researched US electoral processes and related technology and equipment.

- DHS assesses that the types of systems we observed Russian actors targeting or compromising are not involved in vote tallying.

**Russian Propaganda Efforts.** Russia’s state-run propaganda machine—comprised of its domestic media apparatus, outlets targeting global audiences such as RT and Sputnik, and a network of quasi-government trolls—contributed to the influence campaign by serving as a platform for Kremlin messaging to Russian and international audiences. State-owned Russian media made increasingly favorable comments about President-elect Trump as the 2016 US general and primary election campaigns progressed while consistently offering negative coverage of Secretary Clinton.

- Starting in March 2016, Russian Government-linked actors began openly supporting President-elect Trump’s candidacy in media...
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aimed at English-speaking audiences. RT and Sputnik—another government-funded outlet producing pro-Kremlin radio and online content in a variety of languages for international audiences—consistently cast President-elect Trump as the target of unfair coverage from traditional US media outlets that they claimed were subservient to a corrupt political establishment.

- Russian media hailed President-elect Trump's victory as a vindication of Putin's advocacy of global populist movements—the theme of Putin's annual conference for Western academics in October 2016—and the latest example of Western liberalism's collapse.

- Putin's chief propagandist Dmitriy Kiselev used his flagship weekly newsmagazine program this fall to cast President-elect Trump as an outsider victimized by a corrupt political establishment and faulty democratic election process that aimed to prevent his election because of his desire to work with Moscow.

- Pro-Kremlin proxy Vladimir Zhirinovskiy, leader of the nationalist Liberal Democratic Party of Russia, proclaimed just before the election that if President-elect Trump won, Russia would “drink champagne” in anticipation of being able to advance its positions on Syria and Ukraine.

RT's coverage of Secretary Clinton throughout the US presidential campaign was consistently negative and focused on her leaked e-mails and accused her of corruption, poor physical and mental health, and ties to Islamic extremism. Some Russian officials echoed Russian lines for the influence campaign that Secretary Clinton's election could lead to a war between the United States and Russia.

- In August, Kremlin-linked political analysts suggested avenging negative Western reports on Putin by airing segments devoted to Secretary Clinton's alleged health problems.

- On 6 August, RT published an English-language video called “Julian Assange Special: Do WikiLeaks Have the E-mail That'll Put Clinton in Prison?” and an exclusive interview with Assange entitled “Clinton and ISIS Funded by the Same Money.” RT's most popular video on Secretary Clinton, “How 100% of the Clintons' 'Charity' Went to...Themselves,” had more than 9 million views on social media platforms. RT's most popular English language video about the President-elect, called “Trump Will Not Be Permitted To Win,” featured Assange and had 2.2 million views.

- For more on Russia’s past media efforts—including portraying the 2012 US electoral process as undemocratic—please see Annex A: Russia—Kremlin’s TV Seeks To Influence Politics, Fuel Discontent in US.

Russia used trolls as well as RT as part of its influence efforts to denigrate Secretary Clinton. This effort amplified stories on scandals about Secretary Clinton and the role of WikiLeaks in the election campaign.

- The likely financier of the so-called Internet Research Agency of professional trolls located in Saint Petersburg is a close Putin ally with ties to Russian intelligence.

- A journalist who is a leading expert on the Internet Research Agency claimed that some social media accounts that appear to be tied to Russia’s professional trolls—because they previously were devoted to supporting Russian actions in Ukraine—started to advocate for President-elect Trump as early as December 2015.
**Influence Effort Was Boldest Yet in the US**

Russia’s effort to influence the 2016 US presidential election represented a significant escalation in directness, level of activity, and scope of effort compared to previous operations aimed at US elections. We assess the 2016 influence campaign reflected the Kremlin’s recognition of the worldwide effects that mass disclosures of US Government and other private data—such as those conducted by WikiLeaks and others—have achieved in recent years, and their understanding of the value of orchestrating such disclosures to maximize the impact of compromising information.

- During the Cold War, the Soviet Union used intelligence officers, influence agents, forgeries, and press placements to disparage candidates perceived as hostile to the Kremlin, according to a former KGB archivist.

Since the Cold War, Russian intelligence efforts related to US elections have primarily focused on foreign intelligence collection. For decades, Russian and Soviet intelligence services have sought to collect insider information from US political parties that could help Russian leaders understand a new US administration’s plans and priorities.

- The Russian Foreign Intelligence Service (SVR) Directorate S (Illegals) officers arrested in the United States in 2010 reported to Moscow about the 2008 election.

- In the 1970s, the KGB recruited a Democratic Party activist who reported information about then-presidential hopeful Jimmy Carter’s campaign and foreign policy plans, according to a former KGB archivist.

**Election Operation Signals “New Normal” in Russian Influence Efforts**

We assess Moscow will apply lessons learned from its campaign aimed at the US presidential election to future influence efforts in the United States and worldwide, including against US allies and their election processes. We assess the Russian intelligence services would have seen their election influence campaign as at least a qualified success because of their perceived ability to impact public discussion.

- Putin’s public views of the disclosures suggest the Kremlin and the intelligence services will continue to consider using cyber-enabled disclosure operations because of their belief that these can accomplish Russian goals relatively easily without significant damage to Russian interests.

- Russia has sought to influence elections across Europe.

We assess Russian intelligence services will continue to develop capabilities to provide Putin with options to use against the United States, judging from past practice and current efforts. Immediately after Election Day, we assess Russian intelligence began a spearphishing campaign targeting US Government employees and individuals associated with US think tanks and NGOs in national security, defense, and foreign policy fields. This campaign could provide material for future influence efforts as well as foreign intelligence collection on the incoming administration’s goals and plans.
Annex A

Russia -- Kremlin’s TV Seeks To Influence Politics, Fuel Discontent in US

RT America TV, a Kremlin-financed channel operated from within the United States, has substantially expanded its repertoire of programming that highlights criticism of alleged US shortcomings in democracy and civil liberties. The rapid expansion of RT’s operations and budget and recent candid statements by RT’s leadership point to the channel’s importance to the Kremlin as a messaging tool and indicate a Kremlin-directed campaign to undermine faith in the US Government and fuel political protest. The Kremlin has committed significant resources to expanding the channel’s reach, particularly its social media footprint. A reliable UK report states that RT recently was the most-watched foreign news channel in the UK. RT America has positioned itself as a domestic US channel and has deliberately sought to obscure any legal ties to the Russian Government.

In the runup to the 2012 US presidential election in November, English-language channel RT America -- created and financed by the Russian Government and part of Russian Government-sponsored RT TV (see textbox 1) -- intensified its usually critical coverage of the United States. The channel portrayed the US electoral process as undemocratic and featured calls by US protesters for the public to rise up and “take this government back.”

- RT introduced two new shows -- “Breaking the Set” on 4 September and “Truthseeker” on 2 November -- both overwhelmingly focused on criticism of US and Western governments as well as the promotion of radical discontent.

- From August to November 2012, RT ran numerous reports on alleged US election fraud and voting machine vulnerabilities, contending that US election results cannot be trusted and do not reflect the popular will.

- In an effort to highlight the alleged “lack of democracy” in the United States, RT broadcast, hosted, and advertised third-party candidate debates and ran reporting supportive of the political agenda of these candidates. The RT hosts asserted that the US two-party system does not represent the views of at least one-third of the population and is a “sham.”

* This annex was originally published on 11 December 2012 by the Open Source Center, now the Open Source Enterprise.
• RT aired a documentary about the Occupy Wall Street movement on 1, 2, and 4 November. RT framed the movement as a fight against “the ruling class” and described the current US political system as corrupt and dominated by corporations. RT advertising for the documentary featured Occupy movement calls to “take back” the government. The documentary claimed that the US system cannot be changed democratically, but only through “revolution.” After the 6 November US presidential election, RT aired a documentary called “Cultures of Protest,” about active and often violent political resistance (RT, 1-10 November).

RT Conducts Strategic Messaging for Russian Government

RT’s criticism of the US election was the latest facet of its broader and longer-standing anti-US messaging likely aimed at undermining viewers’ trust in US democratic procedures and undercutting US criticism of Russia’s political system. RT Editor in Chief Margarita Simonyan recently declared that the United States itself lacks democracy and that it has “no moral right to teach the rest of the world” (Kommersant, 6 November).

• Simonyan has characterized RT’s coverage of the Occupy Wall Street movement as “information warfare” that is aimed at promoting popular dissatisfaction with the US Government. RT created a Facebook app to connect Occupy Wall Street protesters via social media. In addition, RT featured its own hosts in Occupy rallies (“Minaev Live,” 10 April; RT, 2, 12 June).

• RT’s reports often characterize the United States as a “surveillance state” and allege widespread infringements of civil liberties, police brutality, and drone use (RT, 24, 28 October, 1-10 November).

• RT has also focused on criticism of the US economic system, US currency policy, alleged Wall Street greed, and the US national debt. Some of RT’s hosts have compared the United States to Imperial Rome and have predicted that government corruption and “corporate greed” will lead to US financial collapse (RT, 31 October, 4 November).

Simonyan steps over the White House in the introduction from her short-lived domestic show on REN TV (REN TV, 26 December 2011)
RT broadcasts support for other Russian interests in areas such as foreign and energy policy.

- RT runs anti-fracking programming, highlighting environmental issues and the impacts on public health. This is likely reflective of the Russian Government’s concern about the impact of fracking and US natural gas production on the global energy market and the potential challenges to Gazprom’s profitability (5 October).

- RT is a leading media voice opposing Western intervention in the Syrian conflict and blaming the West for waging “information wars” against the Syrian Government (RT, 10 October-9 November).

- In an earlier example of RT’s messaging in support of the Russian Government, during the Georgia-Russia military conflict the channel accused Georgians of killing civilians and organizing a genocide of the Ossetian people. According to Simonyan, when “the Ministry of Defense was at war with Georgia,” RT was “waging an information war against the entire Western world” (Kommersant, 11 July).

In recent interviews, RT’s leadership has candidly acknowledged its mission to expand its US audience and to expose it to Kremlin messaging. However, the leadership rejected claims that RT interferes in US domestic affairs.

- Simonyan claimed in popular arts magazine Afisha on 3 October: “It is important to have a channel that people get used to, and then, when needed, you show them what you need to show. In some sense, not having our own foreign broadcasting is the same as not having a ministry of defense. When there is no war, it looks like we don’t need it. However, when there is a war, it is critical.”

- According to Simonyan, “the word ‘propaganda’ has a very negative connotation, but indeed, there is not a single international foreign TV channel that is doing something other than promotion of the values of the country that it is broadcasting from.” She added that “when Russia is at war, we are, of course, on Russia’s side” (Afisha, 3 October; Kommersant, 4 July).

- TV-Novosti director Nikolov said on 4 October to the Association of Cable Television that RT builds on worldwide demand for “an alternative view of the entire world.” Simonyan asserted on 3 October in Afisha that RT’s goal is “to make an alternative channel that shares information unavailable elsewhere” in order to “conquer the audience” and expose it to Russian state messaging (Afisha, 3 October; Kommersant, 4 July).

- On 26 May, Simonyan tweeted with irony: “Ambassador McFaul hints that our channel is interference with US domestic affairs. And we, sinful souls, were thinking that it is freedom of speech.”
RT Leadership Closely Tied to, Controlled by Kremlin

RT Editor in Chief Margarita Simonyan has close ties to top Russian Government officials, especially Presidential Administration Deputy Chief of Staff Aleksey Gromov, who reportedly manages political TV coverage in Russia and is one of the founders of RT.

- Simonyan has claimed that Gromov shielded her from other officials and their requests to air certain reports. Russian media consider Simonyan to be Gromov’s protege (Kommersant, 4 July; Dozhd TV, 11 July).

- Simonyan replaced Gromov on state-owned Channel One’s Board of Directors. Government officials, including Gromov and Putin’s Press Secretary Peskov were involved in creating RT and appointing Simonyan (Afisha, 3 October).

- According to Simonyan, Gromov oversees political coverage on TV, and he has periodic meetings with media managers where he shares classified information and discusses their coverage plans. Some opposition journalists, including Andrey Loshak, claim that he also ordered media attacks on opposition figures (Kommersant, 11 July).

- The Kremlin staffs RT and closely supervises RT’s coverage, recruiting people who can convey Russian strategic messaging because of their ideological beliefs.

- The head of RT’s Arabic-language service, Aydar Aganin, was rotated from the diplomatic service to manage RT’s Arabic-language expansion, suggesting a close relationship between RT and Russia’s foreign policy apparatus. RT’s London Bureau is managed by Darya Pushkova, the daughter of Aleksey Pushkov, the current chair of the Duma Russian Foreign Affairs Committee and a former Gorbachev speechwriter (DXB, 26 March 2009; MK.ru, 13 March 2006).

- According to Simonyan, the Russian Government sets rating and viewership requirements for RT and, “since RT receives budget from the state, it must complete tasks given by the state.” According to Nikolov, RT news stories are written and edited “to become news” exclusively in RT’s Moscow office (Dozhd TV, 11 July; AKT, 4 October).

- In her interview with pro-Kremlin journalist Sergey Minaev, Simonyan complimented RT staff in the United States for passionately defending Russian positions on the air and in social media. Simonyan said: “I wish you could see...how these guys, not just on air, but on their own social networks, Twitter, and when giving interviews, how they defend the positions that we stand on!” (“Minaev Live,” 10 April).
RT focuses on social media, building audience

RT aggressively advertises its social media accounts and has a significant and fast-growing social media footprint. In line with its efforts to present itself as anti-mainstream and to provide viewers alternative news content, RT is making its social media operations a top priority, both to avoid broadcast TV regulations and to expand its overall audience.

- According to RT management, RT's website receives at least 500,000 unique viewers every day. Since its inception in 2005, RT videos received more than 800 million views on YouTube (1 million views per day), which is the highest among news outlets (see graphics for comparison with other news channels) (AKT, 4 October).

- According to Simonyan, the TV audience worldwide is losing trust in traditional TV broadcasts and stations, while the popularity of "alternative channels" like RT or Al Jazeera grows. RT markets itself as an "alternative channel" that is available via the Internet everywhere in the world, and it encourages interaction and social networking (Kommersant, 29 September).

- According to Simonyan, RT uses social media to expand the reach of its political reporting and uses well-trained people to monitor public opinion in social media commentaries (Kommersant, 29 September).

- According to Nikolov, RT requires its hosts to have social media accounts, in part because social media allows the distribution of content that would not be allowed on television (Newreporter.org, 11 October).

- Simonyan claimed in her 3 October interview to independent TV channel Dozhd that Occupy Wall Street coverage gave RT a significant audience boost.

The Kremlin spends $190 million a year on the distribution and dissemination of RT programming, focusing on hotels and satellite, terrestrial, and cable broadcasting. The Kremlin is rapidly expanding RT's availability around the world and giving it a reach comparable to channels such as Al Jazeera English. According to Simonyan, the United Kingdom and the United States are RT's most successful markets. RT does not, however, publish audience information.

- According to market research company Nielsen, RT had the most rapid growth (40 percent) among all international news channels in the United States over the past year (2012). Its audience in New York tripled and in Washington DC grew by 60% (Kommersant, 4 July).

- RT claims that it is surpassing Al Jazeera in viewership in New York and Washington DC (BARB, 20 November; RT, 21 November).

- RT states on its website that it can reach more than 550 million people worldwide and 85 million people in the United States; however, it does not publicize its actual US audience numbers (RT, 10 December).
This report is a declassified version of a highly classified assessment; its conclusions are identical to those in the highly classified assessment but this version does not include the full supporting information on key elements of the influence campaign.
Formal Disassociation From Kremlin Facilitates RT US Messaging

RT America formally disassociates itself from the Russian Government by using a Moscow-based autonomous nonprofit organization to finance its US operations. According to RT's leadership, this structure was set up to avoid the Foreign Agents Registration Act and to facilitate licensing abroad. In addition, RT rebranded itself in 2008 to deemphasize its Russian origin.

- According to Simonyan, RT America differs from other Russian state institutions in terms of ownership, but not in terms of financing. To disassociate RT from the Russian Government, the federal news agency RIA Novosti established a subsidiary autonomous nonprofit organization, TV-Novosti, using the formal independence of this company to establish and finance RT worldwide (Dozhd TV, 11 July).

- Nikolov claimed that RT is an “autonomous noncommercial entity,” which is “well received by foreign regulators” and “simplifies getting a license.” Simonyan said that RT America is not a “foreign agent” according to US law because it uses a US commercial organization for its broadcasts (AKT, 4 October; Dozhd TV, 11 July).

- Simonyan observed that RT’s original Russia-centric news reporting did not generate sufficient audience, so RT switched to covering international and US domestic affairs and removed the words “Russia Today” from the logo “to stop scaring away the audience” (Afisha, 18 October; Kommersant, 4 July).

- RT hires or makes contractual agreements with Westerners with views that fit its agenda and airs them on RT. Simonyan said on the pro-Kremlin show “Minaev Live” on 10 April that RT has enough audience and money to be able to choose its hosts, and it chooses the hosts that “think like us,” “are interested in working in the anti-mainstream,” and defend RT’s beliefs on social media. Some hosts and journalists do not present themselves as associated with RT when interviewing people, and many of them have affiliations to other media and activist organizations in the United States (“Minaev Live,” 10 April).
Annex B

ESTIMATIVE LANGUAGE

Estimative language consists of two elements: judgments about the likelihood of developments or events occurring and levels of confidence in the sources and analytic reasoning supporting the judgments. Judgments are not intended to imply that we have proof that shows something to be a fact. Assessments are based on collected information, which is often incomplete or fragmentary, as well as logic, argumentation, and precedents.

Judgments of Likelihood. The chart below approximates how judgments of likelihood correlate with percentages. Unless otherwise stated, the Intelligence Community's judgments are not derived via statistical analysis. Phrases such as "we judge" and "we assess"—and terms such as "probable" and "likely"—convey analytical assessments.

Percent

Almost no chance | Very unlikely | Unlikely | Roughly even chance | Likely | Very likely | Almost certainly

Remote | Highly improbable | Improbable | Roughly even odds | Probable | Highly probable | Nearly certain

Confidence in the Sources Supporting Judgments. Confidence levels provide assessments of the quality and quantity of the source information that supports judgments. Consequently, we ascribe high, moderate, or low levels of confidence to assessments:

- **High confidence** generally indicates that judgments are based on high-quality information from multiple sources. High confidence in a judgment does not imply that the assessment is a fact or a certainty; such judgments might be wrong.
- **Moderate confidence** generally means that the information is credibly sourced and plausible but not of sufficient quality or corroborated sufficiently to warrant a higher level of confidence.
- **Low confidence** generally means that the information's credibility and/or plausibility is uncertain, that the information is too fragmented or poorly corroborated to make solid analytic inferences, or that reliability of the sources is questionable.
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