CYBER THREAT ANALYSIS

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BACK DESPITE DISRUPTION: REDDELTA RESUMES OPERATIONS



Insikt Group® researchers used proprietary Recorded Future Network Traffic Analysis and RAT controller detections, along with common analytical techniques, to continue tracking the activity of the suspected Chinese state-sponsored threat activity group RedDelta.

Data sources include the Recorded Future® Platform, Farsight Security's DNSDB, SecurityTrails, VirusTotal, Shodan, BinaryEdge, and common OSINT techniques.

This report will be of greatest interest to network defenders in the private sector, public sector, and non-governmental organizations with a presence in Asia, as well as those interested in Chinese geopolitics.

Executive Summary

In the interim two-month period since previous Insikt Group reporting, RedDelta has largely remained unperturbed by the extensive public reporting on its targeting of the Vatican and other Catholic organizations. Despite taking basic operational security measures through changing the resolution status of command and control (C2) domains in the immediate aftermath of this reporting, the group's tactics, techniques, and procedures (TTPs) remained consistent. RedDelta's persistence is exemplified through resuming its targeting of both the Vatican and the Catholic Diocese of Hong Kong mail servers within two weeks of the report publication. More widely, there has been new activity that we attribute to the group in the form of PlugX samples featuring decoy documents themed around Catholicism, Tibet-Ladakh relations, and the United Nations General Assembly Security Council, as well as additional network intrusion activity targeting Myanmar government systems and two Hong Kong universities.

Key Judgments

 RedDelta continues to operate in line with Chinese strategic priorities. This is further exemplified by the group's continued targeting of the Vatican and Hong Kong Catholic Diocese, and the use of targeted decoy documents centered on topical geopolitical issues of concern to the People's Republic of China (PRC), such as Catholicism within China and Tibet-Ladakh relations, in a manner consistent with cyberespionage operations.

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The group's reuse of publicly reported infrastructure and TTPs is likely indicative of a group experiencing operational success and highlights a pragmatic approach to operational security, with RedDelta willing to continue to use publicly known infrastructure as long as access is maintained.

Background

On July 28, 2020, Insikt Group <u>published</u> research identifying that the Vatican and the Catholic Diocese of Hong Kong were among several Catholic Church-related organizations targeted by the suspected Chinese-state sponsored threat activity group RedDelta. This series of suspected network intrusions also targeted the Hong Kong Study Mission to China and The Pontifical Institute for Foreign Missions (PIME), Italy. Insikt Group assessed that the targeting of entities related to the Catholic church is likely indicative of Communist Party of China (CCP) objectives in consolidating control over the "underground" Catholic church, "<u>sinicizing religions</u>" in China, and diminishing the perceived influence of the Vatican within China's Catholic community.

In addition to the targeting of entities related to the Catholic Church, Insikt Group also identified network intrusions impacting law enforcement and government entities in India, a government organization in Indonesia, and other unidentified targets across Myanmar, Hong Kong, and Australia. In this activity the group used multiple malware variants, including a customized PlugX variant referred to as "RedDelta PlugX," Cobalt Strike Beacon, and Poison Ivy.

Threat Analysis

RedDelta Cleaning Up Post-Publication

Following the publication of the original RedDelta report on July 28, 2020, the group took a number of evasive steps related to the infrastructure used in the intrusions, including changing IP resolutions across several of the identified command and control (C2) domains. For example, less than one day after publication of the RedDelta research, all of the C2 subdomains identified within the "Poison Ivy/Cobalt Strike" cluster stopped resolving.

Subdomain	Previous Hosting IP Address
web.miscrosaft[.]com	154.213.21[.]207
lib.jsquerys[.]net	154.213.21[.]70
lib.hostareas[.]com	154.213.21[.]73

Table 1: "Poison Ivy Cluster" domains that stopped resolving the day after report publication.

Additionally, the hosting IP for the PlugX C2 domain cabsecnow[.] com was switched from 167.88.180[.]32 to 103.85.24[.]149 on August 3, 2020. However, this was not the case for all of the identified infrastructure. Many of the PlugX C2 servers remained live and continued to be used across several of the intrusions identified within the initial report. This contrast highlights the group's willingness to continue to use publicly known infrastructure as long as access is maintained.



Figure 1: Network traffic between Catholic Diocese of Hong Kong and RedDelta C2 infrastructure.

RedDelta Resumes Its Targeting of the Vatican and Hong Kong Catholic Diocese

In analyzing communications between targeted organizations and RedDelta C2 infrastructure using Recorded Future Network Traffic Analysis, we identified that the network communications between Catholic church organizations ceased in the immediate aftermath of the report publication. However, this was short-lived, and within 10 days, the group returned to its targeting of the Hong Kong Catholic Diocese mail server, and within 14 days, a Vatican mail server. This is indicative of RedDelta's persistence in maintaining access to these environments for gathering intelligence, in addition to the group's aforementioned high risk tolerance.

On September 10, 2020, China's Foreign Ministry <u>announced</u> that the 2018 PRC-Holy See deal had been "implemented successfully", with a renewal of the deal <u>expected</u> to be announced in the coming weeks. The timing of this announcement was preceded by RedDelta activity targeting the Vatican network dying down one week prior, and follows a <u>Rome visit</u> in late August from Chinese foreign minister Wang Yi, suggesting that the group's intelligence tasking requirement may have been achieved or no longer required. In the interim period since our previous report, it is unclear whether the group was able to successfully regain access to the Vatican network. However, the attempts to do so, followed by the emergence of new RedDelta Catholic church-themed lure documents, again highlight the CCP's focus on gaining increased oversight of the Catholic community within China.



Figure 2: Timeline of Recent RedDelta activity. (Source: Recorded Future)

Further Targeting in Line With Chinese Strategic Interests

RedDelta continues to target organizations aligned with China's strategic and geopolitical interests. In previous reporting, we linked a series of network intrusions and phishing attempts targeting several Catholic church organizations to the group, which took place in advance of talks between the two states ahead of the anticipated renewal of the 2018 China-Holy See deal. In the interim period, the group has used additional lures referencing Catholics within China, Tibet-Ladakh relations, and the United Nations General Assembly Security Council to attempt to load PlugX on target machines.

The first sample is loaded in a similar manner as the samples described within the previous RedDelta report. The first-stage DLL side-loading phase again uses a legitimate Microsoft Word executable to side-load a first-stage DLL loader, with both files initially stored inside a zip file. On this occasion, the zip file appears to have been stored on Google Drive, with the user likely directed to download it via a spearphishing link. Following the first DLL side-loading phase, an encrypted PlugX DAT payload is retrieved from http://103.85.24[.]161/8.dat.

History of Tibet-Ladakh Relations and Their Modern

Implications

The remote Himalayan region of Ladakh, <u>a union territory of India</u>, has recently been in the news due to fighting between Indian and Chinese forces along disputed border with China's Tibet Autonomous Region (TAR).

The immediate cause of the dispute is the lack of a clear border in the area. Before the colonial period, <u>clear linear borders</u> did not exist in the Himalayas because states <u>conceptualized sovereignty differently</u>, and because it was difficult and pointless to clearly delineate borders in sparsely populated <u>high altitude</u> areas. Even in colonial times, the difficulty of establishing a border between British India and the Qing Empire is demonstrated by the existence of several different British lines, none of which provided a final answer as to where the border between Ladakh and Tibet lay. Strategic, not historical, considerations were used to propose several lines: <u>the Ardagh-Johnson line of 1865</u>, which pushed the border up the most to the north and east, the more conservative <u>Macartney–</u> <u>MacDonald Line of 1899</u>, and a third line that was never seriously considered because it would have drawn the <u>boundary along the Karakoram</u> <u>range</u> to the south of the effective border, giving up parts of Ladakh.

Yet, regardless of where the existing boundary comes to lie, it would have kept Ladakh and Tibet apart: It would have merely formalized the fact that while Tibet lay in the Chinese sphere-of-influence, Ladakh would be associated with the political world of the Indian subcontinent. Despite their common history, religious heritage, and culture, how and why did Tibet and Ladakh come to be politically distinct? In fact, some of the western areas of the Tibetan plateau — Baltistan, part of the Pakistani region of Gilgit-Baltistan, the Indian union territory of Ladakh, as well as the Indian

Figure 3: "History of Tibet-Ladakh Relations and Their Modern Implications" PlugX decoy document.

File Name	SHA256 Hash
History of Tibet-Ladakh Relations and Their Modern Implications.zip	ca59ad2becdfba8f308264ec336b07b- c415ea34f36d9e84228eda97cd8f7ef5c
History of Tibet-Ladakh Relations and Their Modern Implications.exe	6c959cfb001fbb900958441dfd8b262fb33e- 052342948bab338775d3e83ef7f7 (legitimate Microsoft Word executable vulnerable to DLL side-loading)
wwlib.dll	039bbe3f1d84efe3546f329aa1e4a42426c- be7950f68caed3dfe85cca9b6ebe0 (malicious first-stage side-loaded DLL)

Table 2: Contents of "History of Tibet-Ladakh Relations and Their Modern Implications.zip" for first stage DLL side-loading.

Unlike previously identified RedDelta PlugX samples, this one uses a legitimate Avast Proxy executable for the second DLL side-loading phase rather than the legitimate Adobe executable used in previously analyzed samples. When loaded into memory, the PlugX payload uses www.systeminfor[.]com for command and control — the same domain used across the Catholic church-themed PlugX samples. Across all four newly analyzed samples, the first stage DLL loader files share an identical, uncommon import hash and rich header with previously observed first stage RedDelta PlugX DLLs. The loaded PlugX payload also matches the custom RedDelta PlugX variant previously described, using RC4 encryption for C2 communications with the same hardcoded RC4 passphrase and configuration block decoding function.

In this sample, the user is shown a decoy document titled "History of Tibet-Ladakh Relations and Their Modern Implications," as shown in Figure 3. Although the specific targeting of this sample is unclear, the inclusion of the reference to Ladakh is particularly interesting given the <u>recent</u> <u>escalation</u> in border tensions between China and India across this region, while Tibet remains a frequent target of Chinese state-sponsored cyberespionage. Similar to several other RedDelta samples, the content of the decoy document is taken from legitimate sources, in this case from a July 2020 <u>article</u> by the Asia-Pacific current affairs news site, The Diplomat.

The second PlugX sample is loaded in an almost identical manner to the Tibet-Ladakh one above, in this case retrieving the encrypted PlugX DAT payload from http://103.85.24[.]158/ eeas.dat. The sample uses the same Adobe executable vulnerable to DLL side-loading seen in one of the Catholic church PlugX samples, and uses the Avast Proxy executable seen in the above Tibet-Ladakh sample for the second stage side-loading. On this occasion, the zip file appears to have been stored on Dropbox, and again, was likely delivered through spearphishing containing a malicious link. This PlugX sample again uses www.systeminfor[.]com for command and control.

United Nations

General Assembly

Security Council



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Advance Unedited Version

General Assembly Seventy-Fifth session Agenda item 64 Peacebuilding and sustaining peace Security Council

2020 Report of the Secretary-General on Peacebuilding and Sustaining Peace

I. Introduction

1. The third review of the United Nations peacebuilding architecture, requested by landmark twin resolutions on peacebuilding and sustaining peace, General Assembly resolution 70/262 and Security Council resolution 2282 (2016), and launched in October 2019, takes place when there is greater consensus than ever that the human and financial costs of responding to crisis rather than investing in prevention are unsustainably high. As we mark the 75th anniversary of the United Nations, we are reminded of the Charter's aspirations to "save succeeding generations from the scourge of war." The Charter highlights the critical relationship between peace and security, development, human rights and international cooperation. Member States reaffirmed these interlinkages in adopting the 2030 Agenda for Sustainable Development as the framework for collective efforts to build peaceful, just, prosperous and inclusive societies. The COVID-19 pandemic and its consequences have brought the necessity of this into more acute focus.

2. The 2016 resolutions affirmed the primary responsibility of national Governments and authorities in identifying and driving priorities, strategies and activities for sustaining peace, at all stages of conflict, and emphasized that inclusivity was key to advancing national peacebuilding objectives. Inclusive and sustainable development, anchored in the protection and promotion of human rights, gender equality, and the goal of leaving no one behind, is the best defense against conflict. Since assuming office, I have reiterated that we must place the prevention of crisis and human suffering at the heart of our work. This is how, together, we address root causes of vulnerability, and provide pathways to sustainable development and peace.

3. The world's population continues to face increased poverty, inequality, exclusion as well as threats to peace and security. By the end of 2019, 79.5 million persons had been forcibly displaced, double the level of 20 years ago. A record 19 million children were internally displaced due to

Figure 4: "Advance version of the 2020 Report of the Secretary-General on Peacebuilding and Sustaining Peace" PlugX decoy document snippet.

File Name	SHA256 Hash
Advance version of the 2020 Report of the Secretary-General on Peacebuilding and Sustaining Peace.zip	4f29180005f3c2e- 776d1854722270287111ec073ab80dfc1b- 4dc1bc0d9337ddf
Advance version of the 2020 Report of the Secretary-General on Peacebuilding and Sustaining Peace.exe	c21bfc263890f02763f56b4e9f5cf- 9113656cf09d7864b53ec2fd2024b- dadd60 (legitimate Adobe executable vulnerable to DLL side-loading)
acrord32.dll	eef56bfc68959c6eaa66ab6abcaaf8f- b54aa5b5a7da0866d97a1effeae0952b8 (malicious first stage side-loaded DLL)

Table 3: Contents of "Advance version of the 2020 Report of the Secretary-General on Peacebuilding and Sustaining Peace.zip" for first stage DLL side-loading. The 18-page decoy document used in this sample (shown in Figure 4) purports to be an advanced unedited copy of the "2020 Report of the Secretary-General on Peacebuilding and Sustaining Peace" authored by the United Nations General Assembly Secretary-General. However, the legitimate report was most likely obtained from the United Nations website and doctored to add the "Advanced Unedited Edition" classification and to change the date. The legitimate report was released on August 4, 2020, ahead of the Seventy-Fifth session of the General Assembly due to take place in October. On its website, the UN states that the paper will be the principal input into the 2020 Review of the UN Peacebuilding Architecture and that the report is being prepared by a core group of UN entities.

While the specific target of this particular sample is unclear, the use of public documents based on topical geopolitical issues as decoys has previously been seen in multiple RedDelta lures. Additionally, the DAT payload filename seen in this sample, titled eeas.dat, is possibly in reference to the European External Action Service (EEAS), the diplomatic service and combined foreign and defence ministry of the European Union. Mustang Panda, a closely overlapping threat activity group, has also previously <u>used</u> a United Nations Security Council-themed lure in historic activity.

How Catholics Adapt to Changes in China: A Missiological Perspective Chiaretto Yan 氘健湘

Abstract

The Church is missionary by nature. Vatican II has shifted the Church's attention from the object of faith to the greater discovery of the interlocutor to who mission aims at. This article aims at knowing better the China situation. Since China introduced the reform and opening-up policy 40 years ago, she has experienced the biggest migration in human history when half of her poverty-laden rural population moving to the cities. Social changes have been enormous. There are many challenges for the country. The Church is also adapting to the changes.

The first part of this article is dedicated to the analysis of the mission of the Church particularly the formation among the laity and the youths in recent decades. They have played an active role in evangelization in the process of urbanization. There are many positive experiences. For instance, urban-rural mobility has helped exchanges and reconciliation between official and clandestine communities.

The second part is on the adaptation of the local church in China to the changing situation today. The local church needs to adapt to social changes and to cope with the implementation of new religious regulations and restrictions. However, the improvement in Holy See-China relations gives signs of new hope. An increase in cultural exchanges leads to subtle changes in the relationship of Catholics with other people in China. As Pope Francis encourages Catholics in China to be authentic Christians and good citizens, he also affirms that we are an integral part of the universal Church. Giving testimony along this line could generate a desirable dynamic change of relationships at different levels and spheres.

The third part is on the prospect of walking together towards a culture of care. The Pope calls on everybody to a new vision of care with an integrated approach dedicated to ecology, to the poor, and a new economy. At the same time, China is committed to the goals of poverty alleviation and ecological civilication. The COVID pandemic brings the Church's attention to care for the needy and generates creative thinking to find new possibilities. There are many positive experiences in China in this regard. The Holy Spirit has guided the Church throughout history at times of light and shadow. Catholics in China could respond actively to these callings and to be an instrument of peace for the good of the human family.

摘要

教会在本质上赋有福传的使命。梵二将教会的着重点从信仰本身转移到对福传对象的了解上。本文旨 在更好地了解天主教在中国的情况与近代的转变。中国自全面实行改革并放政策以来,经历了人类历 史上最优大的人口迁移和城镇化,四十年前农村的贫困人口半数以上都向城镇迁移改善生活。中国经 济社会发展发生了巨大的变化,同时,宗教状况也有很大的转变,在中国的天主教也要适应这些变化 面对挑战。

Catholic Bishops call for urgent Cameroon peace talks

Roman Catholic bishops from around the world are calling on the Cameroon government to hold urgent peace talks with the country's English-speaking separatists and moderates. As violence grows in the central African country, church leaders are urging President Paul Biya to enter negotiations to find a peaceful constitutional settlement that addresses the grievances of the Anglophone community.

Human rights groups report that both the Cameroon armed forces and secessionist militias have terrorized unarmed civilians, burned villages, closed schools and hospitals, and brought the economy to a stand-still in English-speaking regions of the country. The UN estimates that 656,000 Anglophone Cameroonians have fled their homes to avoid the violence, while at least 2,000 people are thought to have been killed.

The bishops have signed an open letter to President Biya, coordinated by the non-partisan Global Campaign for Peace and Justice in Cameroon. The clergymen urge the president, who has been in power since 1982, to join inclusive Swiss-led negotiations aimed at finding a peaceful solution to long-standing Anglophone concerns.

In his 2020 New Year's message, President Biya reaffirmed his determination to defeat secessionist forces using military means. The bishops take no side in the conflict, but they believe there can be no military solution to the current insecurity. Civilians-including Catholic priests-have been kidnapped, and Catholic-run schools and clinics have been forced to close. An estimated 800,000 children are unable to attend school.

The current wave of violence began in 2016 when the

Francophone-dominated government imposed French lawyers and teachers on English-speaking courts and schools. However, Anglophone grievances are rooted in a 1961 UN-backed independence referendum that failed to offer English-speaking Cameroonians, who represent 20% of the population, the chance to form their own country. Especially since 1972, there have been allegations that the Francophone-dominated central government in the capital of Yaoundé has marginalized the mainly Anglophone North West and South West regions.

Responding to international pressure, the Cameroon government held a Major National Dialogue in October 2019. However, the talks were widely boycotted

Figure 5: "How Catholics Adapt to Changes in China: A Missiological Perspective" (Left) and "Catholic Bishops call for urgent Cameroon peace talks" (Right) PlugX decoy document snippets.

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The final two RedDelta PlugX samples again closely resemble the others, both retrieving the DAT payload from http://103.85.24[.]158/hk097.dat, before ultimately using quochoice[.]com for command and control. This domain is currently hosted on the 2EZ Network IP 167.88.177[.]179, with all of the newly identified infrastructure following a previously noted trend in favoured hosting providers. One of the samples, titled "How Catholics Adapt to Changes in China: A Missiological Perspective," is taken from the writings of a Chinese Catholic scholar and focuses on Christianity in China, while the other is taken from a February 2020 article by <u>Independent Catholic News</u>. This again highlights RedDelta's tasking in gathering intelligence on organizations and individuals associated with the Catholic church.

File Name	SHA256 Hash
How Catholics Adapt to Changes in China A Missiological Perspective.zip	ba61ae5b49b12a941e7ef096b- 4714f6a9dc5e43cb- 28527749fa8425a75a315f4
How Catholics Adapt to Changes in China A Missiological Perspective.exe	6c959cfb001fbb900958441dfd8b- 262fb33e052342948bab- 338775d3e83ef7f7 (legitimate Microsoft Word executable vulnerable to DLL side-loading)
wwlib.dll	a64997b94ebfea461c95d445a4d13a- a4c4bd49604451208746d95d10 6b677053 (malicious first stage side-loaded DLL)

Table 4: Contents of "How Catholics Adapt to Changes in China A Missiological Perspective.zip" for first-stage DLL side-loading.

File Name	SHA256 Hash
Catholic Bishops call for urgent Cameroon peace talks.zip	4847d29dc1269b4da- f68e59691e2832be- 3d00aa6bade54330b2d- 93610c6ff544
Catholic Bishops call for urgent Cameroon peace talks.exe	6c959cfb001fbb900958441dfd8b- 262fb33e052342948bab- 338775d3e83ef7f7
	(legitimate Microsoft Word executable vulnerable to DLL side-loading)
wwlib.dll	3f1d0a0d31242bd40e6febbd- d97a9e26cb79dc202bd4f- 155c0a488a146b07dfa
	(malicious first stage side-loaded DLL)

Table 5: Contents of "Catholic Bishops call for urgent Cameroon peace talks.zip" for first-stage DLL side-loading.

RedDelta in Myanmar and Hong Kong

In our previous RedDelta reporting, we observed a wide range of network communications between IP addresses assigned to Myanmar and Hong Kong telecommunication providers and RedDelta C2 infrastructure. Both Hong Kong and Myanmar have been historical targets of the closely overlapping group Mustang Panda ($\underline{1},\underline{2}$). In the interim period, we identified PlugX (C2 103.85.24[.]149) network intrusions likely targeting government systems in Myanmar that we attribute to RedDelta. This included a VPN login portal for a Myanmar government electronic document management system. We believe RedDelta conducted this activity from August 4 (and possibly earlier) through at least September 2, 2020. Access to these systems would likely be a valuable intelligence source for accessing electronic documents stored on the system.

In addition to this new victim within Myanmar, we identified additional PlugX (C2 85.209.43[.]21 network intrusions likely targeting two Hong Kong universities. This IP address currently hosts the domain ipsoftwarelabs[.]com, which was previously noted within <u>reporting</u> on activity targeting Hong Kong using an older PlugX variant. While metadata alone does not confirm a compromise, we believe that both the high volume and repeated communications from hosts within these targeted organizations to these C2s are sufficient to indicate a likely intrusion.

Mitigations

- Configure your intrusion detection systems (IDS), intrusion prevention systems (IPS), or any network defense mechanisms in place to alert on and upon review, consider blocking illicit connection attempts from — the external IP addresses and domains listed in Appendix A.
- Ensure system configuration (including access control) for both internally and externally accessible systems is properly evaluated and that strong passwords are employed on all systems
- Practice network segmentation and ensure special protections exist for sensitive information, such as multi-factor authentication and extremely restricted access and storage on systems only accessible via an internal network.
- Disable basic and legacy authentication where possible, as these can allow attackers to bypass in-place security measures.
- Keep all software and applications up to date in particular, operating systems, antivirus software, and core system utilities.
- Filter email correspondence and scrutinize attachments for malware.
- Employ host-based controls; one of the best defenses and warning signals to thwart attacks is to conduct client-based host logging and intrusion detection capabilities.
- Implement basic incident response and detection deployments and controls like network IDS, netflow collection, host logging, and web proxy, alongside human monitoring of detection sources.

Outlook

RedDelta's reuse of publicly reported infrastructure and TTPs highlights a contrast in risk appetite across Chinese state-sponsored threat activity groups. Whereas some groups remain heavily active despite extensive public reporting (such as <u>APT41</u> and RedDelta), others drastically change behaviours or reduce activity in response to public reporting, such as <u>APT3</u>. In all cases, the plausible deniability offered by Computer Network Exploitation (CNE) operations leads the PRC to regularly deny any involvement in such activity (<u>1,2</u>), including in the RedDelta case, despite the historical body of evidence.

Given the continued RedDelta activity despite extensive public reporting, we expect the group to continue operating with a high operational tempo with minor tweaks in TTPs. In previous reporting, we highlighted the group's targeting of entities such as religious organizations and non-governmental organizations (NGOs), which often lack the ability or will to adequately invest in security and detection measures. This likely further fuels the group's willingness to reuse publicly known infrastructure and TTPs.

Recorded Future Threat Activity Group and Malware Taxonomy

Recorded Future's research group, Insikt, tracks threat actors and their activity, focusing on state actors from China, Iran, Russia, and North Korea, as well as cyber criminals - individuals and groups - from Russia, CIS states, China, Iran, and Brazil. We emphasize tracking activity groups and where possible, attributing them to nation state government, organizations, or affiliate institutions.

Our coverage includes:

- Government organizations and intelligence agencies, their associated laboratories, partners, industry collaborators, proxy entities, and individual threat actors.
- Recorded Future-identified, suspected nation state activity groups, such as RedAlpha, RedBravo, Red Delta, and BlueAlpha and many other industry established groups.
- Cybercriminal individuals and groups established and named by Recorded Future
- Newly emerging malware, as well as prolific, persistent commodity malware

Insikt Group names a new threat activity group or campaign when analysts have data corresponding to at least three points on the Diamond Model of Intrusion Analysis with at least medium confidence, derived from our Security Intelligence Graph. We can tie this to a threat actor only when we can point to a handle, persona, person, or organization responsible. We will write about the activity as a campaign in the absence of this level of adversary data. We use the most widely-utilized or recognized name for a particular group when the public body of empirical evidence is clear the activity corresponds to a known group.

Insikt Group utilizes a simple color and phonetic alphabet naming convention for new nation state threat actor groups or campaigns. The color corresponds to that nation's flag colors, currently represented below, with more color/nation pairings to be added as we identify and attribute new threat actor groups associated with new nations.

For newly identified cybercriminal groups, Insikt Group uses a naming convention corresponding to the Greek alphabet. Where we have identified a criminal entity connected to a particular country, we will use the appropriate country color, and where that group may be tied to a specific government organization, tie it to that entity specifically.

Insikt Group uses mathematical terms when naming newly identified malware.



Appendix A — Indicators of Compromise



Figure 6: Maltego chart of newly identified RedDelta infrastructure and malware samples.

File Name	SHA256 Hash
History of Tibet-Ladakh Relations and Their Modern Implications.zip	ca59ad2becdfba8f308264ec336b07bc415ea34f36d9e84228eda97cd8f7ef5c
wwlib.dll	039bbe3f1d84efe3546f329aa1e4a42426cbe7950f68caed3dfe85cca9b6ebe0
wsc.dll	a1640a83373a8ce9e80734418ee0b10d48d3d0d823883a519849b50710c9f46a
main.dat	c2652596fb983c2b4c9bd3daa97ad992650be070ce4a0d4fbbaba0eb4e43decc
Advance version of the 2020 Report of the Sec- retary-General on Peacebuilding and Sustaining Peace.zip	4f29180005f3c2e776d1854722270287111ec073ab80dfc1b4dc1bc0d9337ddf
acrord32.dll	eef56bfc68959c6eaa66ab6abcaaf8fb54aa5b5a7da0866d97a1effeae0952b8
wsc.dll	5a795c4b2a1a9c76791a516822ae0c9ec9d02780c41d2f6a6960a4ea15d68e34
main.dat	f7a7eca072cb07af2a769bff4729478a9ec714c59e3c1c25410184014ccee18e
How Catholics Adapt to Changes in China A Missio- logical Perspective.zip	ba61ae5b49b12a941e7ef096b4714f6a9dc5e43cb28527749fa8425a75a315f4
wwlib.dll	a64997b94ebfea461c95d445a4d13aa4c4bd49604451208746d95d106b677053
wsc.dll	DAEDB4C0BB841423F66A67D169D6831075C4DF98D7823857BE76F280752127C7
main.dat	E74182800EB247A9E0DFB7E6274DEC2839571B650143BCD30423ABE10F8DAAC4
Catholic Bishops call for urgent Cameroon peace talks.zip	4847d29dc1269b4daf68e59691e2832be3d00aa6bade54330b2d93610c6ff544
wwlib.dll	3f1d0a0d31242bd40e6febbdd97a9e26cb79dc202bd4f155c0a488a146b07dfa

Network Indicators 85.209.43[.]21 103.85.24[.]136 103.85.24[.]149 103.85.24[.]158 103.85.24[.]161 167.88.177[.]151 167.88.177[.]179 http://103.85.24[.]161/8.dat http://103.85.24[.]158/eeas.dat http://103.85.24[.]158/hk097.dat locvnpt[.]com cabsecnow[.]com systeminfor[.]com ipsoftwarelabs[.]com quochoice[.]com

CYBER THREAT ANALYSIS CHINA

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About Recorded Future

Recorded Future arms security teams with the only complete security intelligence solution powered by patented machine learning to lower risk. Our technology automatically collects and analyzes information from an unrivaled breadth of sources and provides invaluable context in real time and packaged for human analysis or integration with security technologies.