

U.S DoJ: China Wants What We Have

- U.S. Department of Justice
- U.S. Cybersecurity and Infrastructure Security Agency
 - Awareness Briefing Chinse Cyber Activity Targeting Managed Service Provider
- Made in China 2025





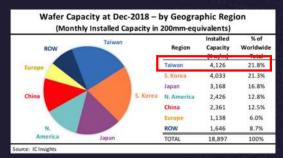
- US-China Trade War
 - U.S. restricts sales of critical chipmanufacturing gear to China.

https://www.investors.com/

Taiwan's Importance in the Semiconductor Landscape

 With decades of development, Taiwan has established itself as a leading player in the semiconductor industry. Some of the well-known leaders include TSMC and MTK





• "Taiwan is set to become the largest and fastest-growing semiconductor equipment maker in the world by increasing by 21.1 percent to reach US\$12.31 billion." -Taiwan News, July 2019

ACYCRAFT

Large-scale APT attacks on Semiconductor Industry

Vendors located at the Hsinchu Science Park(HSP) were targeted

Between 2018 and 2019, we discovered several attacks on semiconductor vendors.

Extensive attack: > 8 semiconductor vendors were attacked

After our white paper was published, the received feedback revealed that more than 8 vendors were targeted by the same threat actor.

Not a single point attack, but an attack on the entire industry surface

The APT on the important vendors were precise and well-coordinated. Their subsidiaries, and competitors were all targeted.

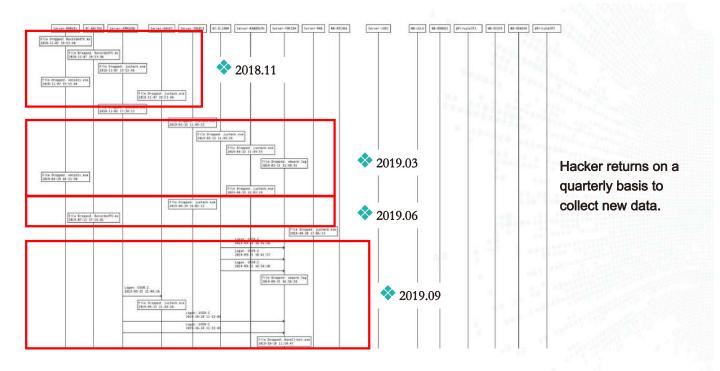


Group Chimera

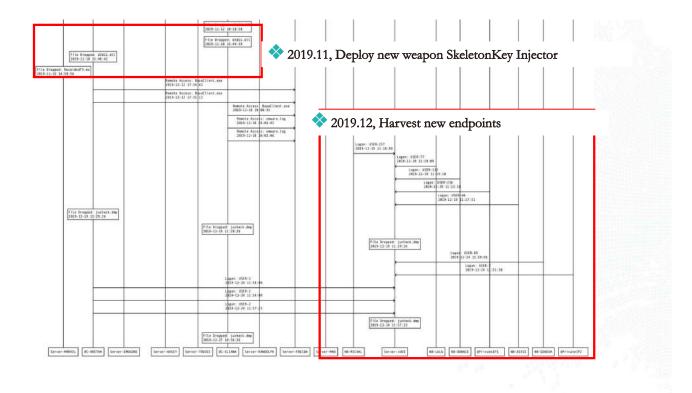


- As the activities, attack techniques, and tactics were similar, we believe this was the work of the same threat actor
- ► Target: Semiconductor Vendors
- Malware: Merged different Open Source Tools (Dumpert and Mimikatz, CobaltStrike)
- C2: C2 hosted in Public Cloud (Google App Engine, Azure)
- Goal: Steal Documents, Source code, SDK of chip related projects

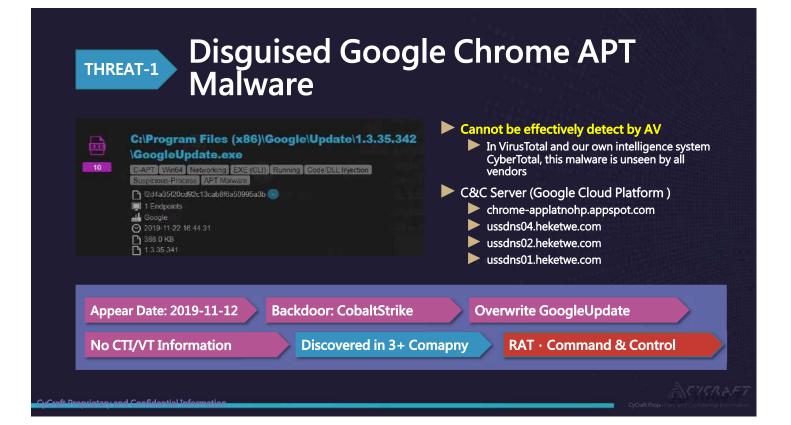
CyCraft Proprietary and Confidential Information



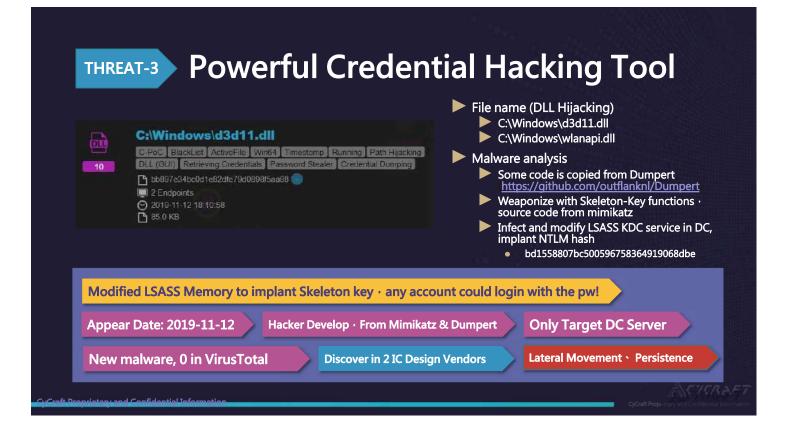


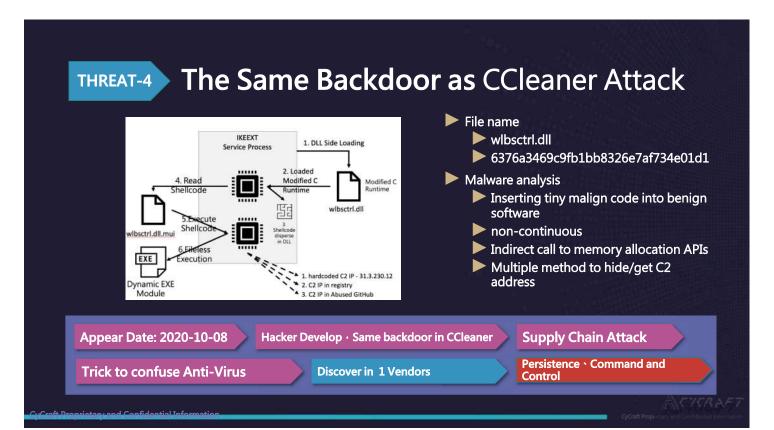


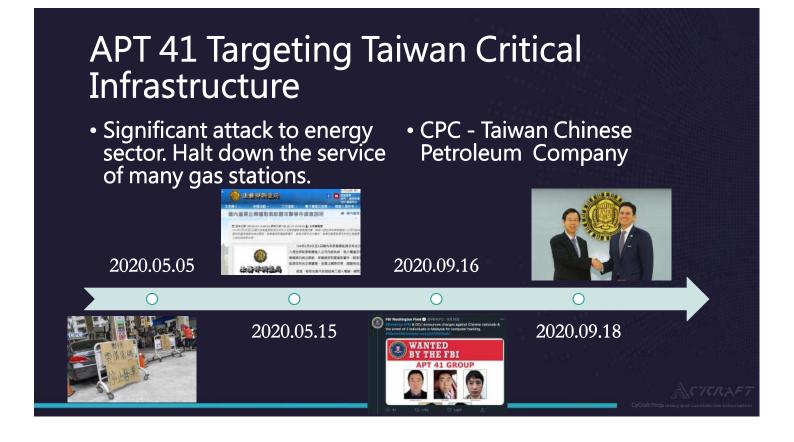




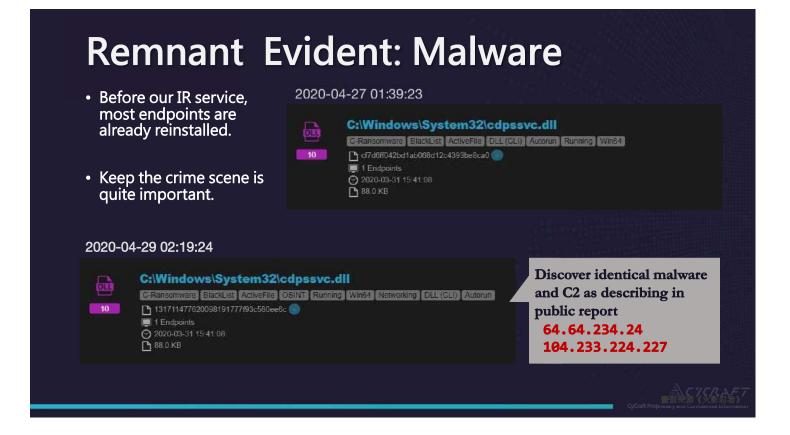
Customize Probing Tools & THREAT-2 **Backdoor** MD5 ► A8559c4bcd299125036583febe1a53fb We thought baseClient.exe in our public report was a network probing }
v4 = 0;
vSAData.wVersion = 0; ▶ It's actually Winnti backdoor *(_BYTE *)buff = 15;
*((_DMORD *)buff + 2) - 0xABC18C8A;
// Winnti protocol magic
rand_between(1000000000, 100000000000, (_DWORD *)buff + 3);
V2 - *((_DMORD *)buff + 3);
LOBYTE(v2) - *((_DMORD *)buff + 3) & 0xEC;
*((_DMORD *)buff + 3) = v2;
v3 - time(0);
v4 - 6etTickCourt() + v3;
result - (DMORD *)buff;
*((_DMORD *)buff;
*((_DMORD *)buff + 1) = v4;
return result; | ISSAData aWersion = 0; | n = 0; | n = 8; | memset(&ISSAData.uHighVersion, 0, 0x18Cu); | HIGODD(ISSAData.lpVendorInfo) = 0; | v2t = 0; | v2d = 0; | v2d = 0; | v2d = 0; | v2e = Appear Date: 2019-11-12 Unknow Source, Maybe Develop by Attackers No information in VirusTotal/CTI **Discover in 3+ HSPB Company** Discovery · Recon

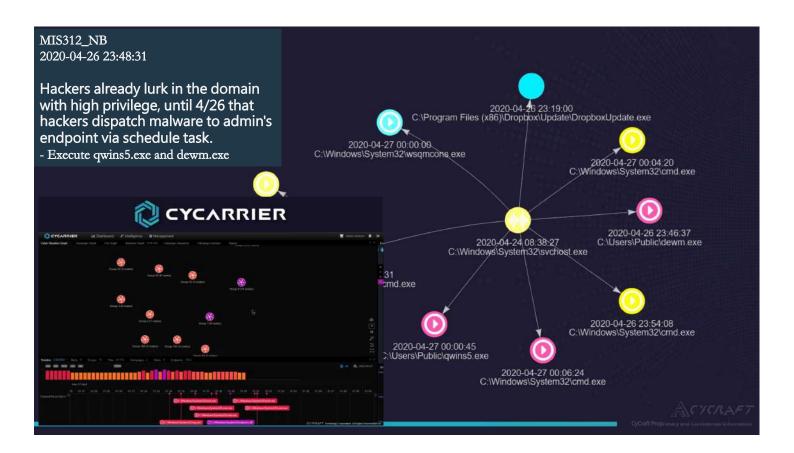


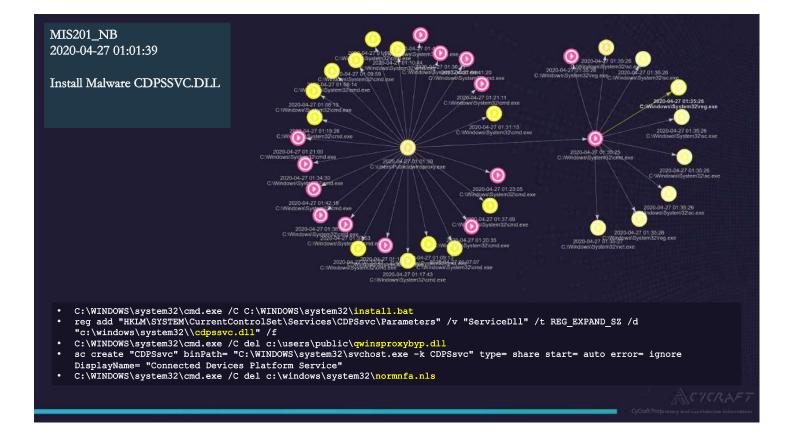




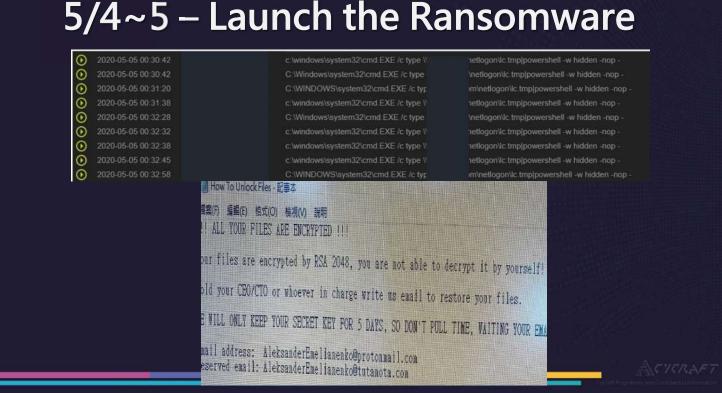








5/4~5 – Launch the Ransomware



Incident Timeline

日曜日	月曜日	火曜日	水曜日	木曜日	金曜日	土曜日
4/26	4/27	4/28	4/29	4/30	5/1	5/2
First observed Hacker activity	1 st round backdoor install	Hacker's day off	2 ND round backdoor install	Hacker's day off	Labor day TW Holiday	Weekend
5/3	5/4 🗥	5/5 🔨	5/6	5/7	5/8	5/9
Weekend Hacker prepare to attack	Compromi sed!!	Compromi sed!!	Reinstall Systems Chunghwa Telecom Incident Notification	Reinstall Systems	Reinstall Systems	
5/10	5/11	5/12	5/13	5/14	5/15 Report from MJIB	5/16



