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Acronis Partner Day at MSP Global 2024

Time to Go Native.

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May I have a (Win)word? A TRU research story



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#CyberFit

MSP vs APT?

Why Does It Matter?

Initial vector of attacks on MSPs



Ransomware victims 2023-2024





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How Does Acronis Protect Drones?

10.01

How Did It All Begin?

Hi Support, I have an incident triggered from winword exe and cannot figure out the

Incidents > 441					? (2)
Threat status Severity Investigation state Image: Mitigated Image: Mitigated Not started		Incident type Created Process detected Jun 21, 2024 11:34:5	Updated 2:099 Jun 25, 2024 10:50:00:069		
CYBER KILL CHAIN ACTIVITIES		winword.exe	~		
Legend	~	Create process	CMD.EXE ★ 🗸	🔅 winword.exe	• X
₽ Workload	1		Create process Conhost.ex	e OVERVIEW ACTIV	VITIES
Process	21		Create process PING.EXE	D CEAND	_
■ File & Network	28 🔹			Type Name	Process winword.exe
Involved	8886 🛩		Create process	PID	4804
 Suspicious activity 	2 🔹		DING.EXE	Path	C:\Program Files\Microsoft Office 15\ClientX64
🚖 Incident trigger	1		Create process PING.EXE	Command Line	"C:\Program Files\Microsoft Office 15\ClientX64\winword.exe" /SvcLoad
Attack summary 🛭 🕼	~		Create process PING.EXE	Username	LocalSystem
1. Attack techniques and tools used The attacker used "winword.exe" and "CMD.EXE" to	execute		Create process	MD5	System 🚯
suspicious activities, including abusing Windows servi manager, checking for Internet connectivity, listing do	ice control		Create proces	S SHA256	8cfb55087fa8e4c1e7bcc580d767cf2c884c1b8c 890ad240c1e7009810af6736
and using non-application layer protocol for commun	lication.		🗘 net.exe) 👻	Size	1.36 MB
2. Potential motivations behind the attack The attack appears to be aimed at gaining unauthoriz			Create process	Executed	Jun 21, 2024 09:36:15:827
sensitive information, compromising network security establishing a command and control (C2) server for fu activities.	, , ,		Create process Create	Digital signature	
			M Indian	Cignor 1	Microsoft Corporation

6

Is Anything Playing Hide and Seek?





7

Deeper Investigation Through a Backup



Are Our Customers Safe?

Is It a World-Wide Attack?

20



All Virtual Roads Lead to Taiwan

What Is the Purpose of It All?



Deep Research Result – A Stealthy Backdoor Discovered



Fingerprinting the Target



Preparing for Future Eavesdropping



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Planning to Exfiltrate Data



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Summary

Silencing popular EDR products

Exploiting 10+ year old Winword via side-loading

Using a digital signature valid for 3 years

Command and Control is protected by Cloudflare, but located in Taiwan

Stealthy operation with in-memory footprint

Highly sophisticated targeted attack against Taiwanese Aerospace

Why Taiwan?

Dozens of companies in drone industry

Expected growth of the global market

Some consumer models have dual-use potential

Media Coverage





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Media Coverage

beta**news**

Operation WordDrone: Taiwan's drone makers hit by sophisticated cyberattack



Threat Actors Target Taiwanese Drone Manufacturers

BY DRASTIC_ADMIN ON SEPTEMBER 11, 2024

DRONES, FEATURED STORIES, SECURITY, TECHNOLOGY

The Acronis Threat Research Unit has released new technical details about a threat group targeting Taiwan drone manufacturers who use an outdated version of Microsoft Word.

Dubbed by Acronis as WordDrone, TRU researchers were able to uncover the tools and techniques used in the maiware including EDRSilencer and Blindslide. Further, they provide an in-depth analysis of ClientEndPoint.dl, the final stage of the attack carried out in two important steps. Additional analysis



of command and control communication, as well as detailed findings of post-exploitation actions, is also included in the findings.

The Hacker News

TIDRONE Espionage Group Targets Taiwan Drone Makers in Cyber Campaign

🛗 Sep 09, 2024 🛔 Ravie Lakshmanan



Update

Cybersecurity firm Acronis has published its own findings into the campaign, which it has dubber Operation WordDrone, stating it observed the attacks between April and July 2024.

The intrusions are also characterized by the use of a technique called Blindside to evade detection endpoint detection and response (EDR) software prior to deploying CLNTEND (aka ClientEndPoint



DARKREADING

'Ancient' MSFT Word Bug Anchors Taiwanese Drone- Maker Attacks

Elizabeth Montalbano, Contributing Writer September 11, 2024



Medium

Why Drone Manufacturers in Taiwan Are Being Cyber-Targeted: A Technologist's Perspective

Dr Mehmet Yildiz (Main) • Follow * 425 Q 11 Published in ILLUMINATION • 6 min read • Sep 11, 2024



XDR vs APT

Antivirus can detect traditional attacks but lacks context

A malicious process is of the second seco	Oct 02, 2024, 01:12 PM			
	is detected the malicious process	7.6		
DIC5/208401C30CDee21155	00ad5f630becf69e18df37b44140bd4f214facf	56.exe'.		
Alert category	Antimalware protection			
Workload	DESKTOP-5KO224M			
Plan name	AP+BE (enabled)			
File name	bfc572da40fc3dcbee2ff5590ad5f630becf69e18df37b44140bd4f214facf			
	56.exe			
File path	C:\Users\Ransom.Test\Desktop\19226173492			
MD5	3644f9a06d97f903a5ceebdd7f2f4500			
Threat name	Trojan.Asyncrat.L			
Action	Notified			
Get support		Clear		

- Legacy antivirus cannot reliably block advanced persistent threats
- Lacks context and proper visualization of complex attack chains
- Cannot correlate events on the workload or on a wider network

XDR is capable of detecting a lot more and provides visibility and context

reat status Severty Investigation state Not mitigated ~ Incar	Possivity level Incident type Created O 10 / 10 Process detected Sep 11, 2024 02:14:23:153	Updated Sep 11, 2024 02:27:53:066	ę	Post comment 🛛 🛛 Remediate entire inciden
BER KILL CHAIN ACTIVITIES				🖨 Copilo
Sep 11, 2024 02:13:42:627 Threat name: Generic Suspicious C SCAR Process	Create process	Show updates	Ø Vespre.ex	e >
(ec2d66753e4200e0b173a58074aa4162548399c163ae77999eb6c10077) IS adding the file to be executed when the user logs in.	Create process			RIPTING ACTIVITIES (4) RESPON
recution 0		Create process	• Type	Process
Sep 11, 2024 02:13:42:632		Q schusk		Vespre exe
Threat name: Suspicious EDRCombinationActivity.Verified		Create pro	* PID	12776
User executes malicious file		Create process		 Stopped
		Create pro		C:\Users\Ransom.Test\AppData\Roaming\GP
efense Evasion 🛛		Create process		Chosers wansom, rescuppidata vioaming/up
Sep 11, 2024 02:13:42:632		• • • • • • • • • • • • • • • • • • •	Command Line	
Threat name: Suspicious.Generic.T1564_001		Load 50 more	Username	Ransom.Test
Process (ec2d65753e420xe0b173a989274ax41425483390c163ax77997eb6c10077) IS		Create pro	 Integrity level 	High O
setting files and directories to be hidden to evade detection			MD5	b83f6c57aa04dab955fadcef6e1f4139
mechanisms.			SHA256	ec2dd6753e42f0e0b173a98f074aa41d26403 c163ae77999eb6c10ff7e2ebd
secution			Size	797 KB
Threat name: Malware CloudGeneric BE			Executed	Sep 11, 2024 02:13:42:637
User executes malicious file (Vespre.exe).			Created date	Sep 11, 2024 02:13:29:056
Sep 11, 2024 02:14:29:491			Modified date	Sep 11, 2024 02:06:04:747
Threat name: Malware CloudGeneric.BE User executes malicious file (Verpre exec).			File attributes	Hidden, System
Care encoded managed int (maple 200)				

Capable of blocking traditional malware and advanced persistent threats at the same time.

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- Provides context and appropriate visualization of the entire attack chain
- 3 XDR can correlate events from multiple sources on the actual workload and on the wider network

3

Your Trust is Empowering Us!

SE LABS

ENTERPRISE ADVANCED SECURITY

Acronis Threat Research Unit

YAU



Q&A session

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Time to Go Native.

Thank you, Ecosystem partners!





<u>Join us in 2025!</u>

Acronis Partner Day at MSP Global October 20-21 | PortAventura, Spain



Register today: go.acronis.com/MSPGlobal2025