

Threat Intelligence: Data, People and Processes

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Terminology

Mandiant Advantage:

A family of modules integrated and services, integrated and accessible through a SaaS environment that augments and helps automate every security team in the world with expertise and intelligence, regardless of SIEM or controls deployed.

Mandiant Threat Intelligence Grid:

Mandiant’s database that contains historical and current threat intelligence, enrichment and adversarial knowledge produced by Mandiant experts, automated processes and machine learning.

Executive Summary

Finite resources and the continual urgency to prioritize alerts and make effective decisions puts many security teams under increasing pressure. One wrong decision at a strategic or operational level can impact the business with costly consequences.

Mandiant's data collection, expert staff, highly specialized teams and unique tracking of actors provides organizations with meaningful context on the threats relevant to their business. Delivering a 360° view of threat actors, their tactics and their targets, Mandiant Advantage Threat Intelligence can help security teams worldwide with defense strategies to protect their organizations from stealthy, fast-moving adversaries regardless of technical security controls.

Introduction

CISOs, SOC managers and other security practitioners must constantly make decisions to defend their organizations against sophisticated threats. Delayed or ill-informed decisions can have a significant impact; security operations teams may lose essential time on low-priority alerts, expensive security controls may turn out to be ineffective and attackers can breach defenses undetected.

To make operational, tactical or strategic decisions, security practitioners compare internal evidence or systems configurations against the information available to them on malicious behaviors or known attack techniques. This global set of information used by security teams to make decisions is often described as cyber threat intelligence (CTI).

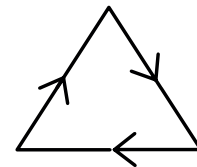
A quick search on the Internet leads to hundreds of CTI sources, each built on different attack types or data sources. However, the volume of data, as well as the variety of CTI platforms and their lack of transparency can leave security practitioners with more questions than answers when tracking a threat. Teams are often unsure which data source to trust, whether the data on threat indicators is still relevant, who is behind an attack and their motivations, the likelihood of an attack, what an attacker's motivations are, and how likely they are to be attacked.

It soon becomes clear that CTI requires more than just data. Users need context to get a full picture of the threats, the targets that are at risk and the specific tactics an attacker deploys.



Mandiant Advantage Threat Intelligence: Data, People and Processes

Over the past 15+ years, through investigations, incident consultancy and red team exercises around the globe, Mandiant has created and curated a unique portfolio of threat intelligence which is constantly updated with new evidence data, human expertise and unique analytic tradecraft. Mandiant is now considered a leader in the field of cyber threat intelligence, delivering several core competences to security teams worldwide.



Broad Threat Visibility

Mandiant independently collects threat insights from a balanced set of sources, giving security teams unique visibility into attackers. These sources include:



Breach intelligence collected via Mandiant Consulting incident response engagements.

Every year, Mandiant conducts more than 200,000 hours of incident response engagements worldwide, giving analysts deep insight into the specific steps malicious actors take against targeted organizations.



Adversarial intelligence obtained by Mandiant researchers.

Engaging in 400+ red team exercises, through thousands of customer-driven intelligence research initiatives and speaking over 30 languages, Mandiant deploys more than 500 threat consultants across 30 countries to produce intelligence reports which detail threat activities discovered in the wild and on the dark web.



Operational intelligence derived from Mandiant Managed Defense services.

Five security operations centers proactively look for and investigate unidentified threat activity in customer environments, ingesting 99 million events annually, actively validating more than 21 million alerts.



Machine intelligence from security products globally.

Mandiant leverages millions of devices across all industries worldwide to identify globally malicious activity targeting users and their assets. This machine intelligence is extracted from 15,000 network sensors in 56 countries, that record tens of millions of malware detonations per hour and scan 65 million emails per day.

Specialist Investigative Teams

Mandiant has over 500 analysts investigating threats and turning data and information into actionable intelligence. The team continuously evaluates collated threat data to identify any new findings, immediately updating and informing customers on changes to their threat landscape. The accuracy, relevance and quality of this information are a result of specialization and collaboration.

Specialization

Different experts specialize in assessing nation-state actors, criminal actors, vulnerabilities and their exploitation, malware, operational technology (OT) environments and information operations.

Collaboration

All source intelligence analysts and technical subject matter experts work closely to provide detail and context around each threat. For example, one Mandiant technical expert may uncover a new type of malware used in targeted attacks and another will develop an assessment of the risks it poses to organizations.

Tight, integrated collaboration between experts in multiple areas facilitate the development of unique findings to address an organization's risk-related needs, which contribute to the intelligence graph that powers Mandiant Advantage Threat Intelligence.



Organized Intelligence Through the Mandiant Threat Intelligence Grid

The Mandiant Threat Intelligence Grid helps track the complex landscape of evolving threats and centralize intelligence findings. The data is enriched by both human experts and machine sources to form the foundations of the Mandiant Advantage platform.

The Mandiant Threat Intelligence Grid tracks domains, actors and their relationships (such as the IP address returned by a domain DNS lookup), as well as the characteristics of entities such as the malware family under which we categorize a file. The system also provides Mandiant threat analysts with a shared workspace in which individuals or teams can collaborate on building a more accurate picture of a threat.

Machine enrichment capabilities within the Mandiant Threat Intelligence Grid augment the system with new insights used by experts during their investigative workflows. Analysts can integrate passive DNS data from providers to understand an adversary's infrastructure, or the system can proactively enrich the entire dataset, automatically linking malicious indicators to new findings from inhouse malware detonation or analysis systems.

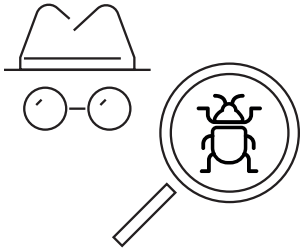
The Mandiant Threat Intelligence Grid powers Mandiant offerings with real-time context on the latest threats. The Threat Intelligence Grid is fully integrated into the Mandiant Advantage platform, providing customers with the expertise and intelligence they need to stop threats regardless of what SIEM or security controls the user deploys.



Actor Attribution and Insight

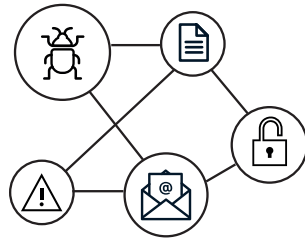
Behind every attack is an actor. Understanding an attacker's motivation and array of tactics helps cyber defenders respond to an attempted attack and proactively assess which external threats could impact their business. To connect threat data with refined attribution analysis, Mandiant experts use a detailed process to define actors, describe their activities and provide customers with end-to-end insight into actor groups.



**01**

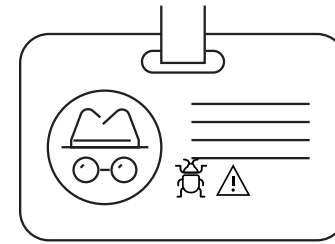
Actors and Malware

Mandiant regularly identifies new actors and malware. An “actor” is a cohesive set of activities believed to be linked to the same people, conducting similar operations over time. Understanding these groups allows threat defenders to allocate security resources to the most relevant threats. To track an actor or a type of malware, Mandiant threat researchers use a unique combination of characteristics such as tools, techniques, infrastructure, targets and post-compromise behaviors.

**02**

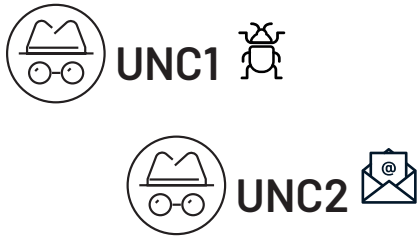
Creating an Activity Set

When threat activity characteristics are consistent enough over multiple incidents, they can be tied into an “activity cluster” attributed to a single individual or group of people working together. Similarly, a malware type would be defined by the functionality and characteristics that differentiate it from others. After establishing the initial activity sets or clusters, the analysis work continues and each activity set evolves.

**03**

UNC Groups

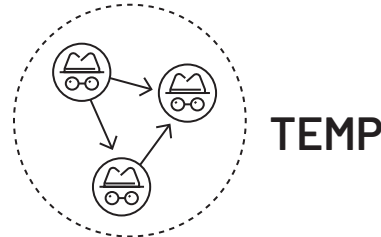
Users of Mandiant Threat Intelligence have access to extracted intelligence findings—activity sets, actors, malware—at multiple stages of the analysis. When Mandiant starts tracking a set of malicious activity, analysts create an uncategorized (UNC) actor entity to describe the early stages of investigation. At this point, the relationships between the new activity, tracked activity and actor intentions may be unclear. An uncategorized entity could cover an activity set as simple as two spear phishing emails with the same lure and malware. With further investigation, this could reveal an end-to-end intrusion operation.



04

Merging UNC Groups

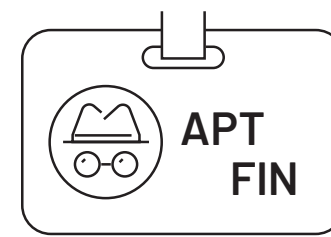
Mandiant has identified over 3,000 UNC groups. While many still exist, others have been merged into combined entities as observations connect them over time. For example, Mandiant analysts might discover evidence during an incident response engagement that forensically shows UNC1 to be associated with the same operators as UNC2 and merge UNC2 into UNC1. However, if analysis indicates that two UNC groups may be related, the connection will be noted and Mandiant analysts will continue tracking the activity sets separately. Should further findings change this view, the system will maintain an historical record of the two distinct components. UNC groups are merged only when data proves that they are not different operations.



05

TEMP Groups

Mandiant uses the TEMP designation when one or more potentially related UNC groups have reached a level that requires customers to follow the activity on an ongoing basis to protect themselves. An example of this in action is TEMP.Veles; an operation linked to deployment of the TRITON framework against industrial safety systems. Due to the highly specialized nature of this type of operation, there are fewer observations of TEMP.Veles compared to many other groups tracked, but it remains important to at-risk organizations.



06

APT and FIN Groups

The most analytically complete actors are those labeled “APT” or “FIN.” Mandiant analysts identify an APT or FIN group after correlating the activity of multiple UNC groups based on high-confidence analysis of the associated risks and how the group operates. The APT designation is used for intrusion sets believed to be state-sponsored and FIN designation is for groups believed to be criminal in nature.

Graduation of FIN12

- **Oct. 2018 - Unique intrusion incidents detected**

Mandiant incident response team identifies some initial incidents where there were clearly unique attacker behavior happening leveraging RYUK ransomware.

- **Mid to late 2019 - Threat activity is mapped**

Mandiant is able to track the method, target and tools used in the attack. Initial access is gained using EMOTET and/or TRICKBOT via a phishing campaign targeting healthcare and other organizations.

- **2020 - UNC1878 Identified**

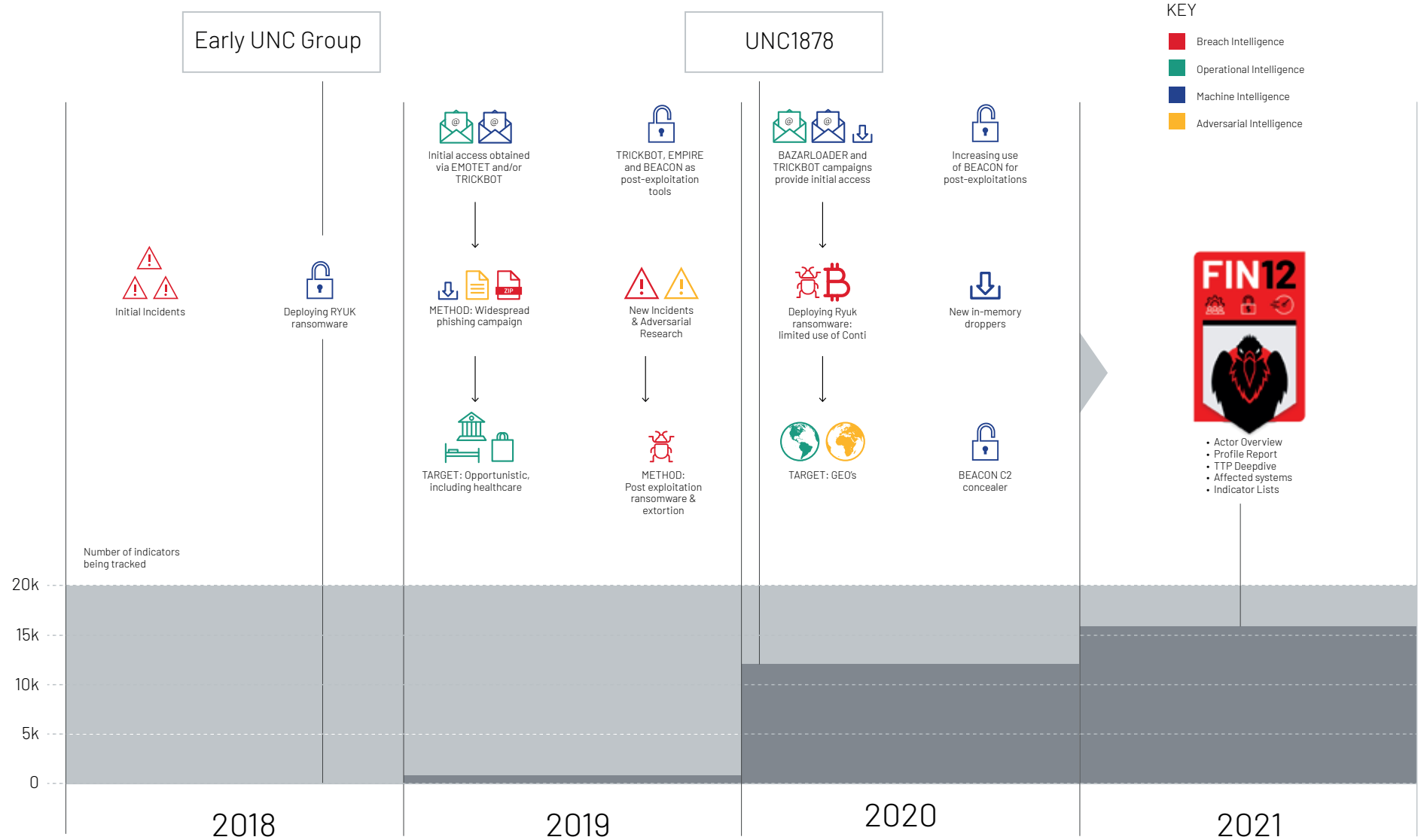
Mandiant starts tracking this cluster of activity as UNC1878 with subsequent research dating back to 2018

- **2020 - Aggressive Financially motivated attacks conducted**

Throughout 2021 UNC1878 was seen conducting ransomware attacks. The group used TRICKBOT and BAZARLOADER campaigns to provide initial access then deployed RYUK or CONTI ransomware targeting organizations around the world. Mandiant also observed an increasing use of BEACON for post-exploitations along with in-memory droppers and a BEACON C2 concealer

- **In 2021, Mandiant graduated FIN12 as a financially motivated threat actor with a focus on the healthcare sector.**

FIN12 Graduation Timeline



Frontline Threat Access Through a Multitude of Interfaces

As new evidence, expertise and actor context unfolds, security practitioners can access the analysis and expertise from the Mandiant Threat Intelligence Grid through multiple interfaces.

Mandiant Advantage

By logging in to Mandiant Advantage, any security practitioner can review trending threats and search for tactical indicators (IP, DNS, URL, CVE, MD5), threat campaigns, malware, actors, vulnerabilities (and their risk score), tactics, techniques and MITRE ATT&CK mappings. Mandiant Advantage allows users to deeply investigate the threats that matter most to them.



MANDIANT ADVANTAGE

← Back

188.114.96.0
View in Mandiant Advantage

IC-Score
100

Analyst Verdict - Malicious
LAST UPDATED 2023-01-19

Our Analysts directly reviewed this Indicator and provided an overriding verdict. Our regular machine learning analysis & processing of intelligence sources still occurred, but the Analyst's verdict is the one that is displayed.

Associations

Actors: **UNC3559**

Dates

Source	Mandiant	Last Seen	
First Seen	Jan 20, 2022	Last Seen	Jan 18, 2023
Source	Mandiant		
First Seen	Mar 23, 2022	Last Seen	Oct 28, 2022
Source	abuse_ch_sslpbi_ag... Category		malware
First Seen	Oct 30, 2022	Last Seen	Jan 18, 2023
Source	Mandiant		
First Seen	Jan 20, 2022	Last Seen	Jan 18, 2023
Source	Mandiant		
First Seen	Jan 20, 2022	Last Seen	Jan 17, 2023
Source	Mandiant		
First Seen	Nov 23, 2022	Last Seen	Jan 8, 2023

Mandiant Advantage Threat Intelligence Browser Plug-in

The Threat Intelligence Browser Plug-in overlays threat intelligence in the browser so security analysts and researchers can quickly learn more about a vulnerability, indicator, malware or even threat actors. It highlights threat intelligence context so users can dig deeper, faster. Learn more with quick pivots into Mandiant Advantage Threat Intelligence to kick off an investigation and prioritize new threats that are discovered. Compatible with multiple browsers including Google Chrome, Mozilla Firefox, Microsoft Edge.

Web API and Integrations

Data represented through Mandiant Threat Intelligence is also available via an application program interface (API) for direct integration to third-party applications including security information and event management (SIEM) tools, threat intelligence platforms (TIP), investigative tools and vulnerability management tools.

Finished Intelligence Reports

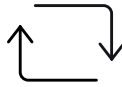
These reports include analytical and technical updates that are timely, relevant, actionable and connected to customer-specific operational, tactical and strategic needs. The intrusion and malware information used when producing finished intelligence reports is also included in the Mandiant Threat Intelligence Grid and powers Mandiant Advantage Threat Intelligence.

The Benefits of Mandiant Advantage Threat Intelligence



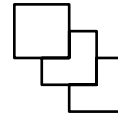
Knowledge from over 500 experts at your fingertips

When Mandiant experts or the enrichment processes learns about a new actor, tactic or target, Mandiant Advantage customers will know. Instant access to continually updated threat intelligence and unique knowledge helps security teams of all sizes make the right security decisions to disrupt stealthy, fast-changing adversaries.



Seamless integration

Mandiant Advantage Threat Intelligence can augment and assist any security team with expertise and intelligence, integrating seamlessly into any current SIEM or security tool.



Serving all layers of the security organization

SOC analysts can look up indicators to validate SIEM alerts or search for actor activity by downloading indicator tables. Vulnerability risk analysts can quickly prioritize discovered CVEs through the browser plugin. Security executives can increase the efficiency of investments by focusing spend on the threat tactics directed at their environment.



Focus on threats that matter most to you

Mandiant Advantage Threat Intelligence data has been curated, connected and enriched with unique tags. Users can rapidly review threat data in different ways and search the latest threat news related to their region, industry or other business technology elements to find relevant, timely content.

Effective Decisions Based on Accurate Attack Analytics

The foundation of Mandiant Advantage Threat Intelligence is the Mandiant Threat Intelligence Grid that contains fifteen years of structured information and analysis on intrusion actors, their tools, activity and techniques. Based on a broad set of sources, collaboration with hundreds of experts and machine enrichment, the data is readily available to Mandiant Advantage Threat Intelligence users and can help organizations make the best use of their finite security resources.

Mandiant tracks actors and malware to provide organizations with meaningful context on the threats they see in their environment. Threat Intelligence interface and API allow users to flexibly search and filter through millions of threat entities to gain insights on the actors and malware relevant to their organizations. Security teams can easily work with this data to reveal indicators, MITRE ATT&CK techniques, targeting information, vulnerabilities exploited and other characteristics. The Threat Intelligence users can get current, comprehensive detail on how threat actors compromise victims by cross-referencing detected threat indicators with useful attack analysis contained in finished intelligence reports.

When a security team of any size is armed with the best possible threat intelligence, they can vastly improve their ability to make faster, proactive and better decisions to protect their organization. Mandiant Threat Intelligence offers industry leading breadth and depth of intelligence information and data, reporting on incidents and threat actors as and when they are discovered.



Learn more at www.mandiant.com

Mandiant

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About Mandiant

Mandiant is a recognized leader in dynamic cyber defense, threat intelligence and incident response services. By scaling decades of frontline experience, Mandiant helps organizations to be confident in their readiness to defend against and respond to cyber threats. Mandiant is now part of Google Cloud.

MANDIANT
NOW PART OF Google Cloud