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Cotton Sandstorm: Influence Operations and Destructive Capability Detection

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Executive Summary

AT A GLANCE

Cotton Sandstorm is a state-aligned threat actor that has been active since at least 2019, operating a dual-mission model that combines long-term influence operations with destructive cyber capabilities. The group's activities are assessed to support the strategic objectives of the Republic of Meridian.

Cotton Sandstorm's influence operations leverage a network of over 4,200 coordinated accounts across X, Facebook, Telegram, and regional platforms. These accounts amplify narratives aligned with Meridian's foreign policy interests, including opposition to sanctions regimes, promotion of bilateral trade relationships, and discrediting of democratic institutions in target countries. Content is produced in 14 languages and tailored to local cultural contexts.

The group's destructive capabilities are demonstrated by the deployment of the WIPERSTORM malware family against energy sector organizations in three countries between 2022 and 2024. WIPERSTORM is a data-destruction tool that overwrites files and corrupts boot records, causing irreversible damage to affected systems.

Attribution is assessed with high confidence based on infrastructure overlaps, shared tooling, and consistent operational patterns. Cotton Sandstorm is distinct from other Meridian-aligned actors tracked by the intelligence community.

Key Judgment

Cotton Sandstorm is assessed with high confidence to be directed by the Meridian State Security Service (MSSS), specifically its Third Bureau, which oversees foreign influence operations.

Key Findings

- Cotton Sandstorm operates a network of 4,200+ coordinated accounts across five platforms, producing content in 14 languages.
- The group deployed WIPERSTORM against energy sector targets in three countries between 2022 and 2024.
- Influence operations amplify narratives supporting Meridian's foreign policy interests and discrediting democratic institutions.
- Infrastructure overlaps with previously tracked Meridian-aligned actors are limited, indicating Cotton Sandstorm is a distinct operation.
- Attribution is assessed with high confidence to the Meridian State Security Service (MSSS), Third Bureau.

Key Judgments

- Cotton Sandstorm will likely continue dual-mission operations through at least 2027.
- The group will likely develop new destructive capabilities targeting industrial control systems.
- Influence operations will likely increase in volume ahead of elections in target countries.
- Meridian will likely use Cotton Sandstorm to test new narratives before deploying them through state media.
- Cotton Sandstorm will likely expand its victimology to include financial institutions.

WIPERSTORM Family

The WIPERSTORM family consists of three distinct variants, each designed for a specific operational scenario. All variants share a common code base but differ in their destruction methods and persistence mechanisms.

WIPERSTORM-A	WIPERSTORM-B	WIPERSTORM-C
Purpose: Rapid mass destruction	Purpose: Targeted destruction	Purpose: Boot-level destruction
Size: 142 KB	Size: 387 KB	Size: 96 KB
Compile time: 2022-08-14	Compile time: 2023-03-02	Compile time: 2024-01-19
Persistence: None	Persistence: Scheduled task	Persistence: MBR modification
Network: None	Network: C2 beacon	Network: None
Encryption: None	Encryption: AES-256	Encryption: None
Wiper: Overwrites MFT	Wiper: Overwrites selected files	Wiper: Corrupts MBR and boot sector

Dual Mission

Mission 1: Cotton Sandstorm Campaign Overview

Cotton Sandstorm Campaign Overview

Background

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Cotton Sandstorm Campaign Overview

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