# Pro-Ukraine Threat Actor 'Team OneFist' Claimed to Compromise Russian Paper Mill OT

Critical Infrastructure (CI)

Fusion (FS)

August 19, 2022 08:12:58 PM, 22-00019704, Version: 1

## **Executive Summary**

- On Aug. 16, 2022, the English-speaking actor "Voltage" from "Team OneFist" claimed to have successfully compromised operational technology (OT) assets of a Russian paper mill in an attempt to cause physical impacts.
- While Mandiant cannot fully corroborate the actor's claims, it is plausible the actor accessed internetaccessible human-machine interfaces (HMI) of a Russian paper mill and an OpenSCADA instance.
- While we doubt the actor was able to significantly impact the control processes, the incident highlights how low-sophistication threat actors can gain access to publicly accessible assets supporting OT. OT asset owners can mitigate this activity by hardening externally facing assets.

### Threat Detail

On Aug. 16, 2022, the English-speaking actor "Voltage" from "Team OneFist" (aka "TeamOneFist") claimed to have successfully attacked operational technology (OT) assets of <u>Kupros paper mill</u> in Novosibirsk, Russia, in an attempted to cause physical impact. The actor posted the claim along with screenshots and a video on their <u>social media</u>. Team OneFist is a pro-Ukraine hacktivist group that appears affiliated with other hacktivist collectives targeting Russia, including "Anonymous."

- The actor dubbed the attack <u>Operation Papyrus</u> and stated that it was conducted in support of Ukraine during the Russia/Ukraine conflict.
- Voltage claimed to have gained root access to the mill's OT network. With that access, they reportedly
  locked legitimate users out of the system and altered PLC instructions in order to cause a physical
  impact. We doubt the actor was successful in altering PLC instructions as they did not share evidence
  of accessing a PLC and they have not previously shown the capability required to accomplish such an
  attack.
- The actor shared two <u>screenshots</u> and a <u>short video</u> showing what appears to be a human machine interface (HMI) for a paper mill (Figures 1–2).
  - The HMIs show the name and logo for another Russian paper company named <u>δκ6φ</u> (translated to BKBF in English), which is in Borovichi, Russia. It is unclear why the threat actor listed a different victim in their social media posts.
  - We are unaware of how the actor obtained the screenshots and video recording. However, it is
    possible that they used online discovery tools, such as Shodan or Censys, to find assets
    accessible to the internet to gain access to the victim network. This is a tactic we have seen other

hacktivists and cyber criminals leverage in targeting OT assets (22-00013224, 21-00011999, 20-00001205).

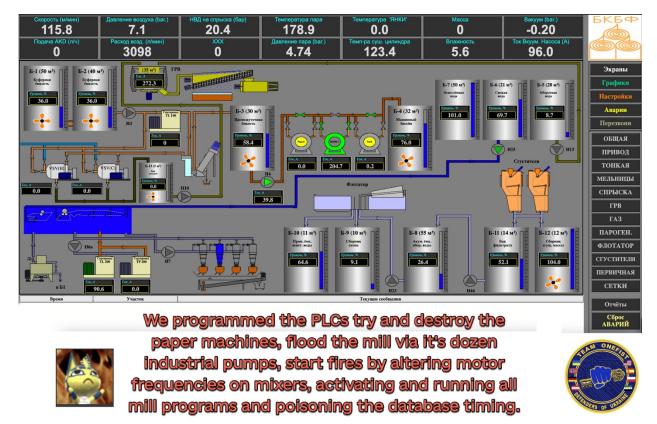


Figure 1: Screenshot of an HMI associated with the BKBF paper factory

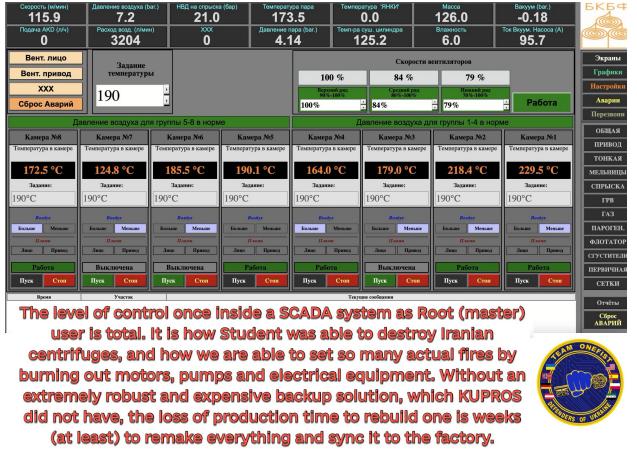


Figure 2: Screenshot of an HMI associated with the BKBF paper factory

- The actor also shared screenshots showing <u>OpenSCADA</u> use and station interface (Figures 3–4). It is
  unclear if this system is related to either the BKBF or Kupros paper mills.
  - <u>OpenSCADA</u> is an open supervisory control and data acquisition (SCADA) and HMI system and is used in the manufacturing sector.
  - Two IPs can be seen in the screenshots.
    - 68[.]49[.]55[.]87 is a U.S.-based IP associated with Comcast. It is possible that the actor used this IP as an exit point in accessing their target.
    - 78[.]36[.]140[.]20 is a Russia-based IP and leads to a login page for a networking device manufactured by <u>Eltex</u>, a Russian manufacturer for communication devices.

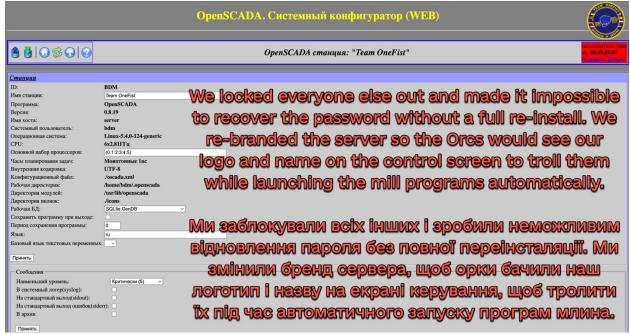


Figure 3: An OpenSCADA station interface

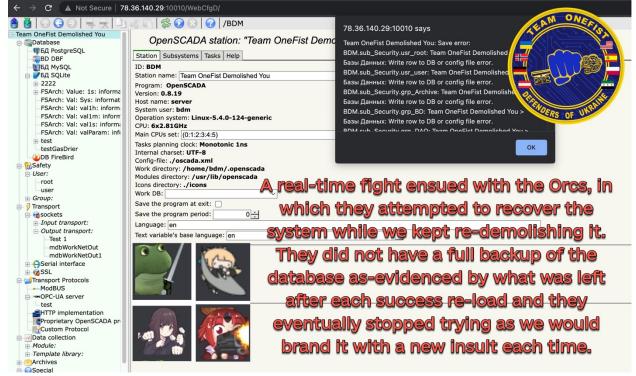


Figure 4: An OpenSCADA station interface

While Mandiant cannot fully corroborate the actor's claims, it is plausible that the actor gained access to internet-accessible OT devices. We previously reported on Voltage and Team OneFist targeting these types of assets in Russia, and we expect these actors to continuing conducting this type of activity.

• In June 2022, the actor claimed to have successfully attacked and disabled a cellular network router allegedly supporting a rail system in Russia (22-00015784). The threat likely exploited a known vulnerability in the system to gain filesystem access and then executed native file deletion commands in the command line interface to impact the device.

#### Outlook

While the actor was unlikely able to significantly impact the control process, the incident highlights how low-sophistication threat actors could gain access to publicly accessible assets that could support OT. We expect these hacktivists to continue targeting internet-accessible OT in Russia and globally. Asset owners should harden externally facing assets, including network devices. Hardening should include vulnerability patching, implementing multi-factor authentication, and account hardening (e.g., change default credentials).

## <u>Please rate this product by taking a short four question survey</u>

## First Version Publish Date

August 19, 2022 08:12:58 PM

## Threat Intelligence Tags

#### Actors

- TeamOneFist Aliases
  - TeamOneFist

#### Affected Industries

Manufacturing

#### **Intended Effects**

• Interference with ICS

#### Motivations

• Anti-Corruption/Anti-Establishment/Information Freedom

#### **Target Geographies**

Russia

#### **Version Information**

Version:1, August 19, 2022 08:12:58 PM

# MANDIANT ADVANTAGE

This report contains content and links to content which are the property of Mandiant, Inc. and are protected by all applicable laws. This cyber threat intelligence and this message are solely intended for the use of the individual and organization to which it is addressed and is subject to the subscription Terms and Conditions to which your institution is a party. Onward distribution in part or in whole of any Mandiant proprietary materials or intellectual property is restricted per the terms of agreement. By accessing and using this and related content and links, you agree to be bound by the subscription.

©2022, Mandiant, Inc. All rights reserved.

Confidential and Proprietary / Copyright © 2022 Mandiant, Inc. All rights reserved.

german[.]simkin@mandiant.com