

# Russian-made Remote Desktop Software Installed on Critical Infrastructure

**Industry:** State, Local Government & Education

## Attacker Objective

Attack and compromise of critical infrastructure

## Background

Arista NDR found Russian-made remote desktop protocol (RDP) software on the control server for a municipality's water treatment plant. The software was regularly communicating to its home base in Russia, enabling full outsider access to the chemical processes necessary to treat the water supply for a city of close to 100,000 people. An outsider could thus easily act maliciously and sabotage the water supply.

## Arista NDR uncovered this threat by:

- Detecting unusual communications to and from an external foreign entity and a critical infrastructure system.
- Automatically identifying Russian-made software on the equipment.
- Identifying the outdated software on this system that prevented the security team from monitoring, patching, and managing it.

## Why Arista NDR?

The FBI and Department of Homeland Security have issued multiple warnings about Russian actors targeting government entities and critical infrastructure sectors. Arista NDR alerted the city's security team to the presence of the software, which allowed them to remediate the situation rapidly.

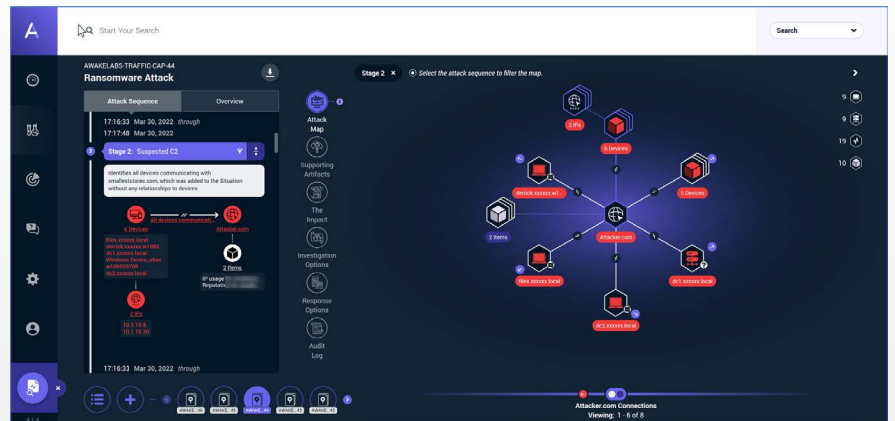


Fig 1: Arista NDR identified an unpatched device used to control the water treatment plant with remote access from a foreign location.

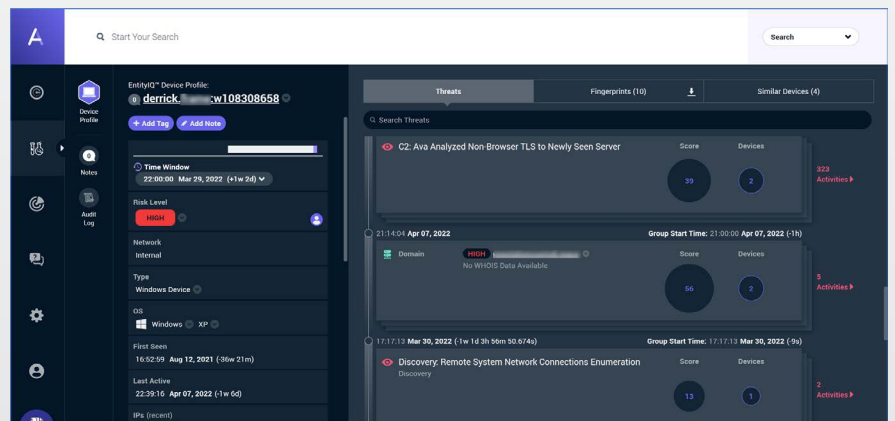


Fig 2: Arista NDR's EntityIQ™ tracked down an unpatched device being used to control the water treatment plant

Arista NDR automatically discovered the software since it triggered a couple of adversarial models, including one for data exfiltration and another for extended remote access. Using Arista's AVA AI capabilities, Arista NDR autonomously triaged anomalous behaviors of a critical server and isolated the system behaving erroneously, confirming remote access from a foreign location.

Arista NDR also identified that this system was running an unpatched and unsupported version of Microsoft Windows 2003.