DATA PROTECTION FOR POWER UTILITIES

Andrew Ginter
Waterfall Security Solutions

2023

THREAT LANDSCAPE – CHANGED FOREVER

DOUBLING ANNUALLY
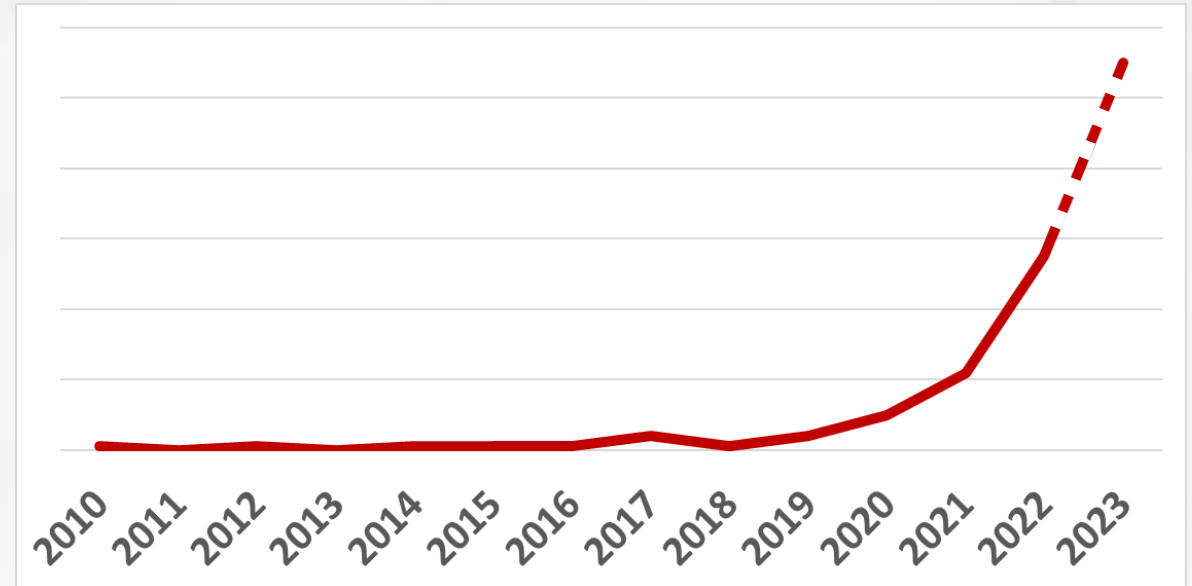Exponential growth

TRAILING NATION-STATES
By only 3-5 years

MOSTLY RANSOMWARE
Though hacktivist & intel agency activity
is increasing

CYBER ATTACKS WITH PHYSICAL CONSEQUENCES

*What nation states do to each other today,
ransomware criminals will do to everyone with money
in only a few years*

WATERFALL®
Stronger Than Firewalls

US DOE STRATEGY – "SECURITY ENGINEERING"

IF YOUR LIFE DEPENDS ON A BOILER NOT EXPLODING
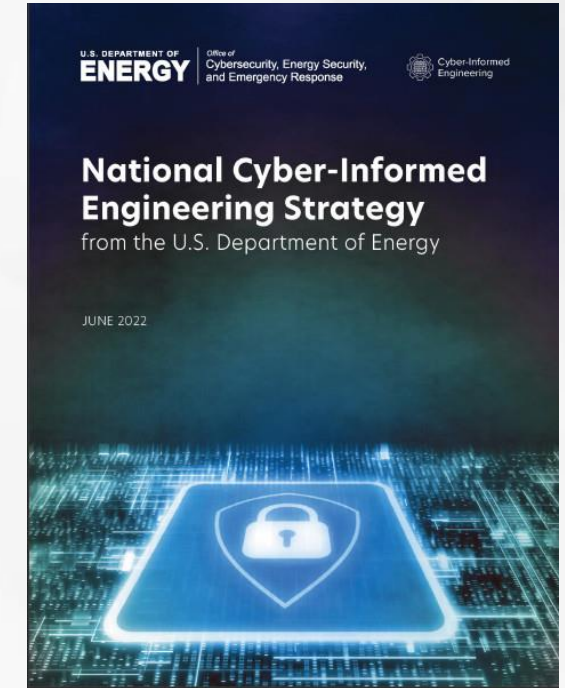Would you prefer spring-loaded valve, or longer PLC password? Where is the valve in IEC 62443 or NIST CSF?

ENGINEERING PROFESSION
Managed physical risk for a century – new threat, same risk

WOULD YOU TRUST A BRIDGE
Whose design engineer "hopes" it will carry a specified load, for a specified number of decades?

Engineering-grade solutions
work predictably and deterministically

National Cyber-Informed Engineering Strategy
from the U.S. Department of Energy

JUNE 2022

Awareness Education Development Current Infrastructure Future Infrastructure

WATERFALL®
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UNIDIRECTIONAL SECURITY GATEWAYS

UNBREACHABLE PROTECTION, UNLIMITED CONNECTIVITY

Unidirectional Gateways are a combination of hardware and software

- The hardware sends information in only one direction
- The software makes copies of servers & devices from the OT network to the enterprise network
- All software runs in the WF-600 gateway unit – no software to install in your industrial or enterprise networks
- No attack, no matter how sophisticated, can propagate back into the OT network through the gateway

# CLEAR UNIDIRECTIONAL DESIGN

FORM FACTOR OPTIONS

- Zero internal cross-connects – robust and certified unidirectional engineering

- Physically divided industrial and enterprise components

- Dual power supplies on each of sending & receiving sides

- DIN RAIL, split (2u) and 1u form factors

Powerful options – form factors for every need

DIN Rail

WF-600

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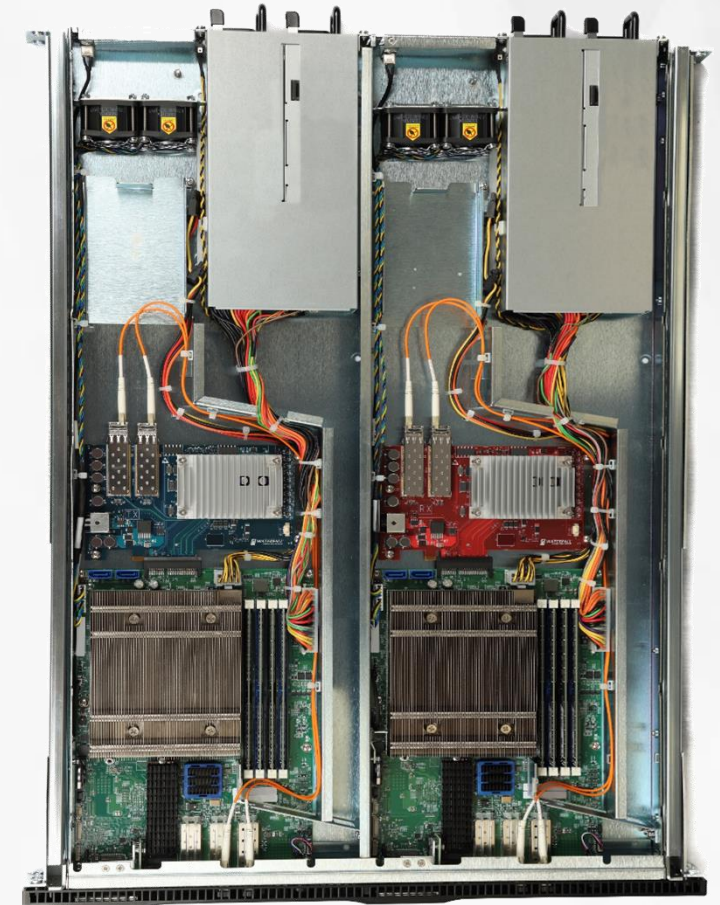
ABOUT **WATERFALL SECURITY**

| **2007** Founded | **>1000** Sites | **>20** Verticals | **6** Global Sales & Ops Hubs | **14** Published Patents |

Leading the world's OT unidirectional gateway market with superior solutions, worldwide presence, and proven track record of success

Key Sectors:

Power | Oil & Gas | Water | Rails | Manufacturing | Facilities