2022 Winner
THE NATIONAL
CYBER AWARDS®

Cyber 2.0

THE Chaos of NAC

Cyber 2.0

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What We Do

Total defense against the **spread** of all cyber-attacks
including **new and unknown** ones
within and outside the organizational network

Only authorized computers will be able to communicate with each other

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The Problem

Unauthorized, unprotected, contaminated and non supervised device can connect to the network

Examples of attacks in 2020

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WE COMBINES SEVERAL CAPABILITIES

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NAC (Network Access Control)

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- Ensures that **only authorized** computers/devices inside and outside the organization will be able to **communicate** with each other
- All **others**, which are not authorized/unknown, will be **blocked**
- **Proven** technology (Hacker challenges)
- Based on a **Mathematical Chaos Engine**

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Cyber 2.0's NAC advantages

1. Does not require the replacement of current network hardware
2. Does not require port authentication or complex configuration
3. Provides forensic capabilities of all network traffic
4. Installation is simple and easy
5. Allows deployment through the cloud

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The Chaos Model

The Cyber World

is based on
biological models

that are vulnerable to attacks
by systems using similar models
(hence where the terminology virus
and anti-virus comes from)

Cyber 2.0

is based on
mathematical chaos model

that cannot be breached
(Not even by us)

Video

Cyber 2.0 is protected by 9 patents

Cyber 2.0

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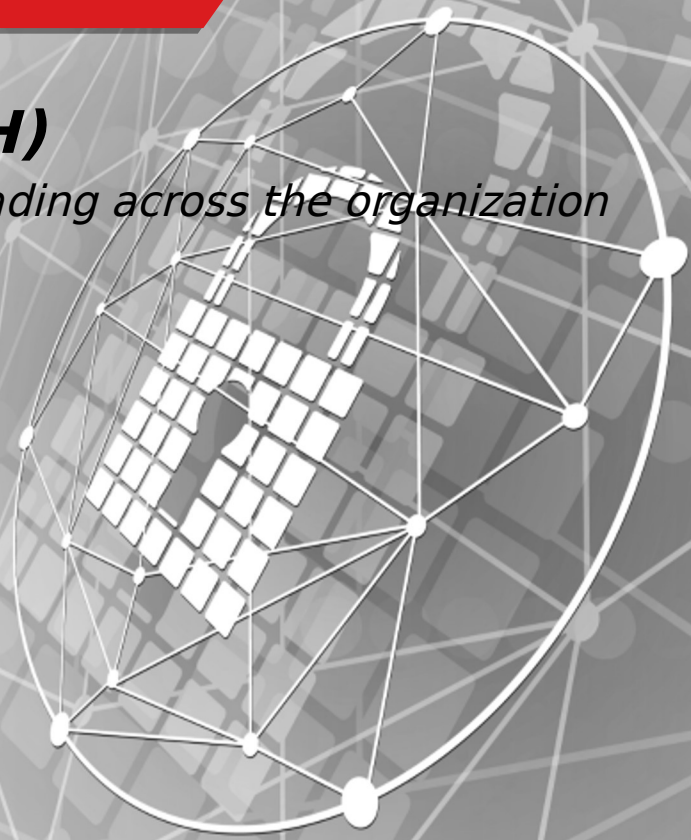
More Advantages

- Complete solution for Working From Home (***WFH)***
  We block malicious software on the computer at home from spreading across the organization



- One solution for both ***IT & OT*** systems

- Continuous Risk Assessment
  first one within 14 days

- Reduction of the total cost of cyber defense
  (instead of all irrelevant defense systems)

Challenging all Hackers

- 4 years
- 5,500 hackers
- $ 100,000 Reward

They all failed

$100,000 Hacker Challenge Goes Unclaimed at Tech

Cyber 2.0, an Israeli cybersecurity company with offices in Atlanta, offered a cash prize to anyone who could access a single file from its protected server.

All hackers in the Cyber 2.0 International Hackers Challenge fail

With no winner, the NIS 10,000 prize was instead donated to the charity group the "Good Guys Association." However, it will not be the last such challenge.

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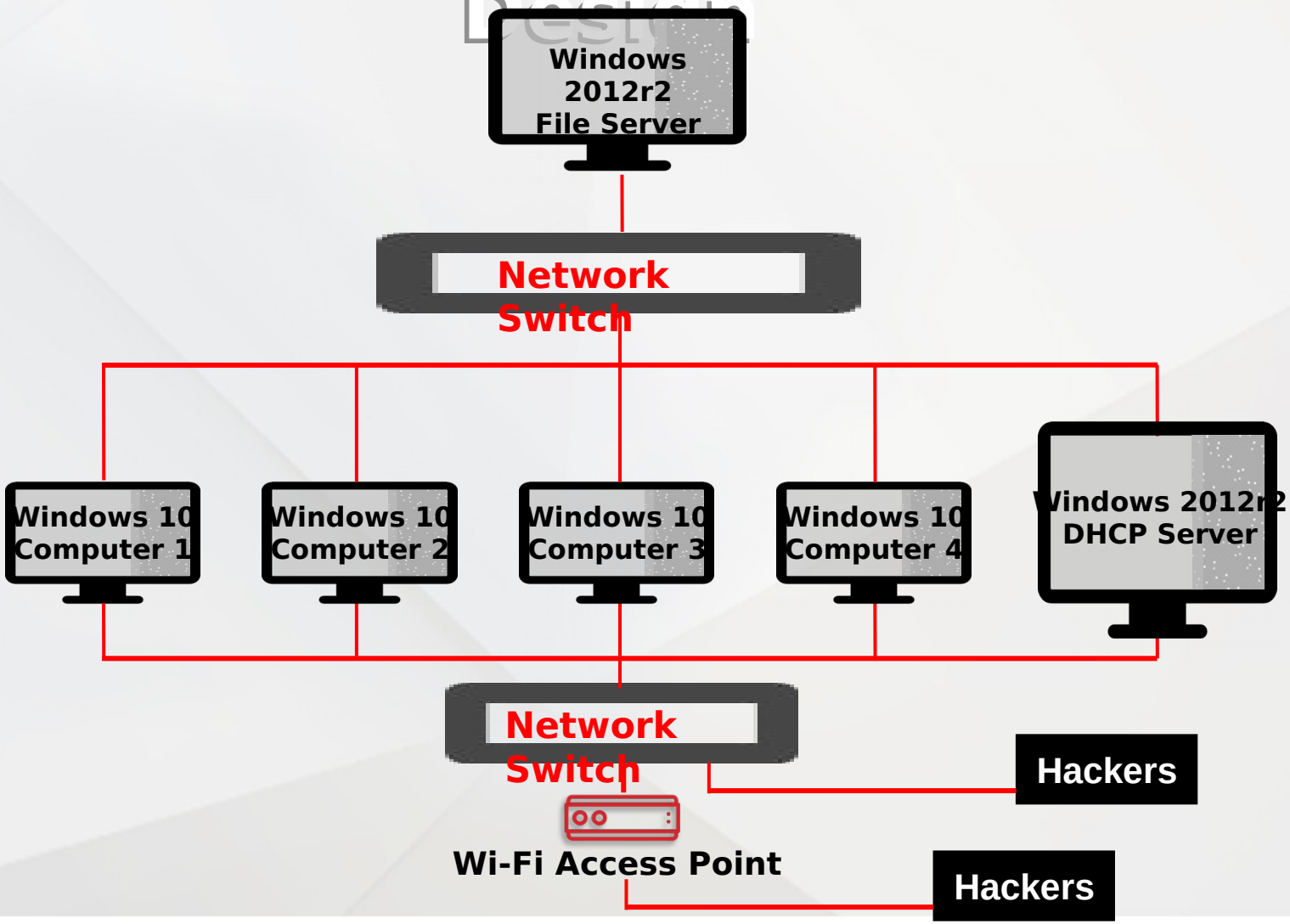
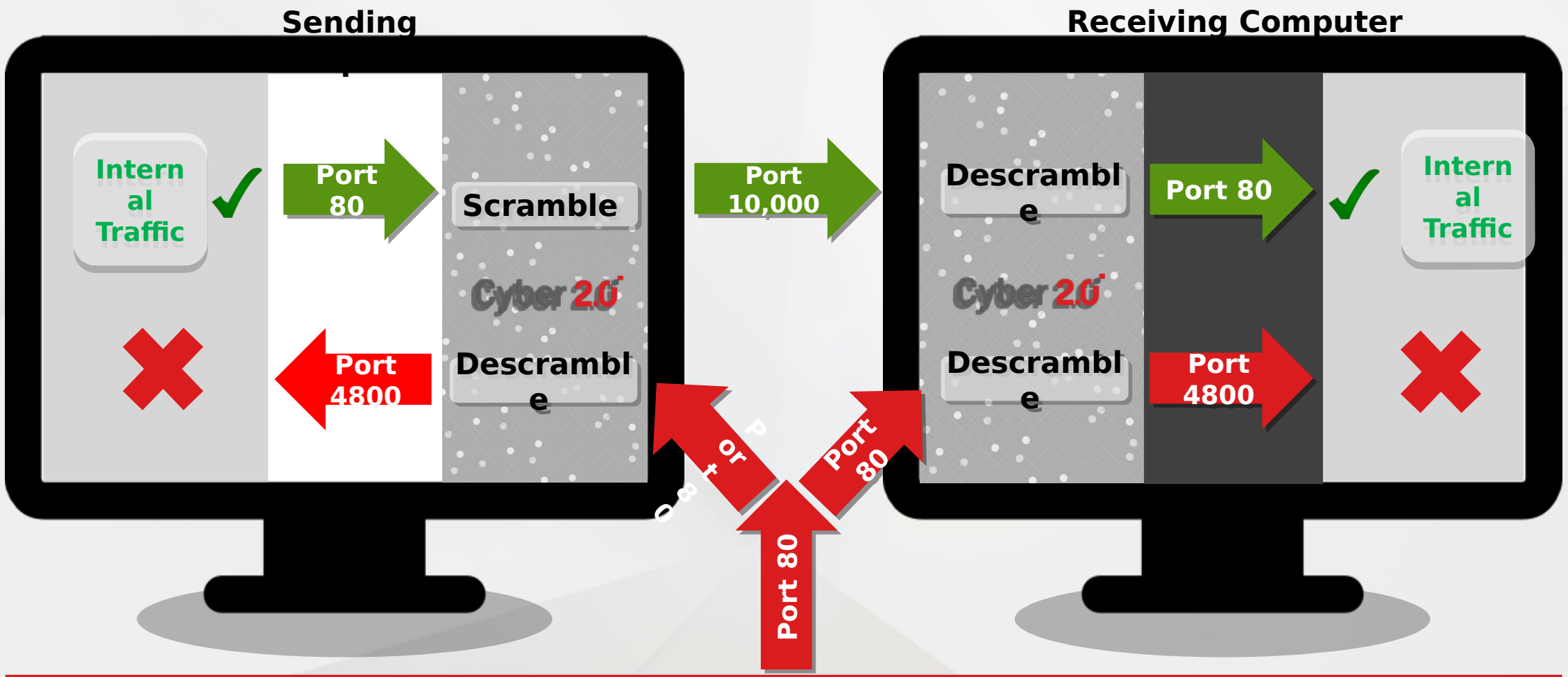
The Hackers Challenge Network Design



NAC based on - Chaos Mathematical Engine

Ports between protected node are chaos scrambled



External traffic is not scrambled

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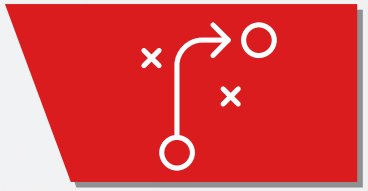

1. Unauthorized device

Any attempt to connect to a network protected by cyber 2.0 NAC **will fail**

2. ARP poisoning/spoofing attacks

3. Man in the middle

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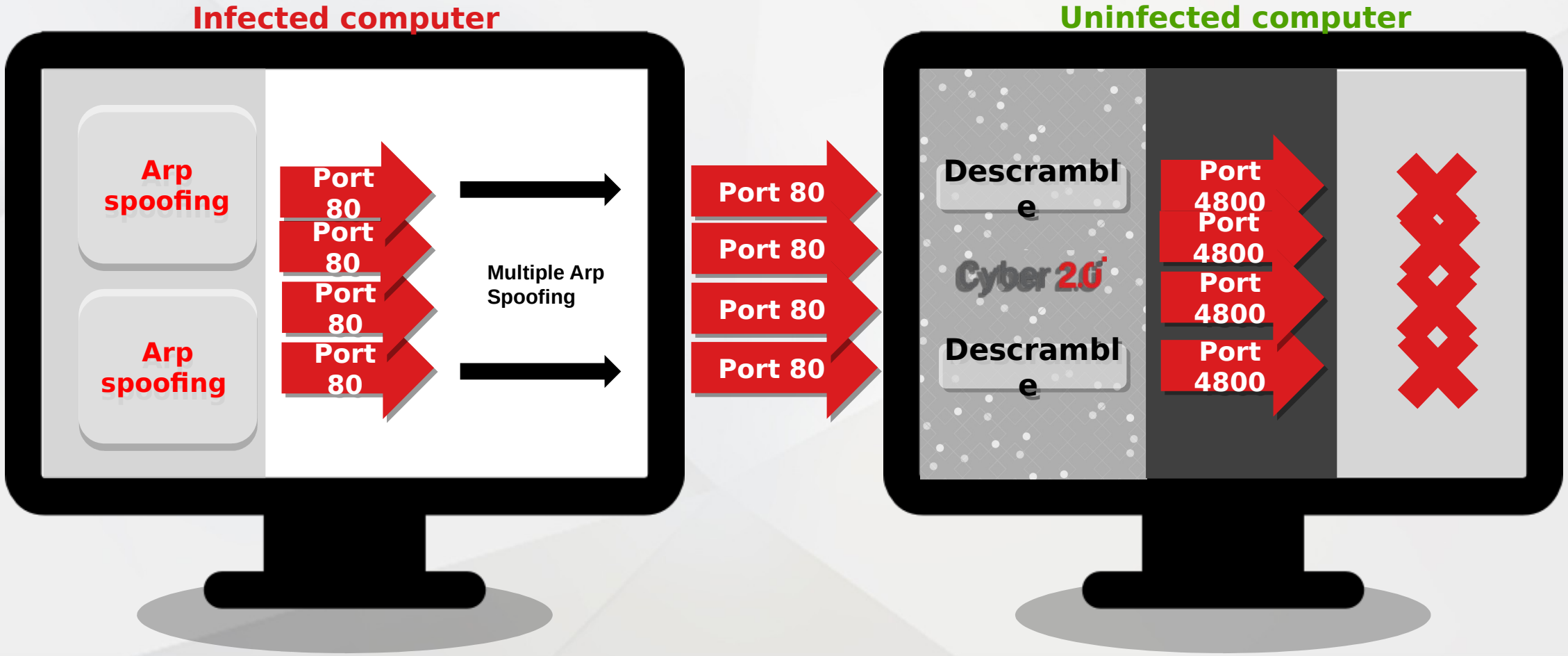
Unauthorized device. 1

Not approved devices

Cyber 2.0

ARP poisoning/spoofing 2.0 attacks

Attempts to use arp to bypass NAC will fail

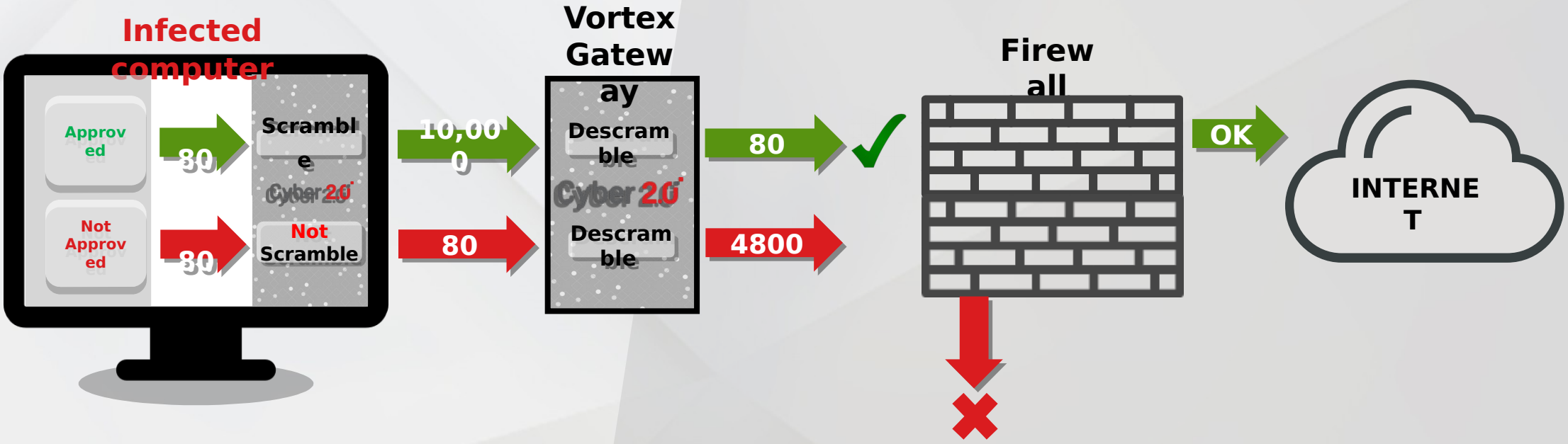


Cyber 2.0

Vortex Gateway for Firewall

PATENTED

A dedicated Gateway is deployed between the network and Firewall / various unsupported network devices



Cyber 2.0

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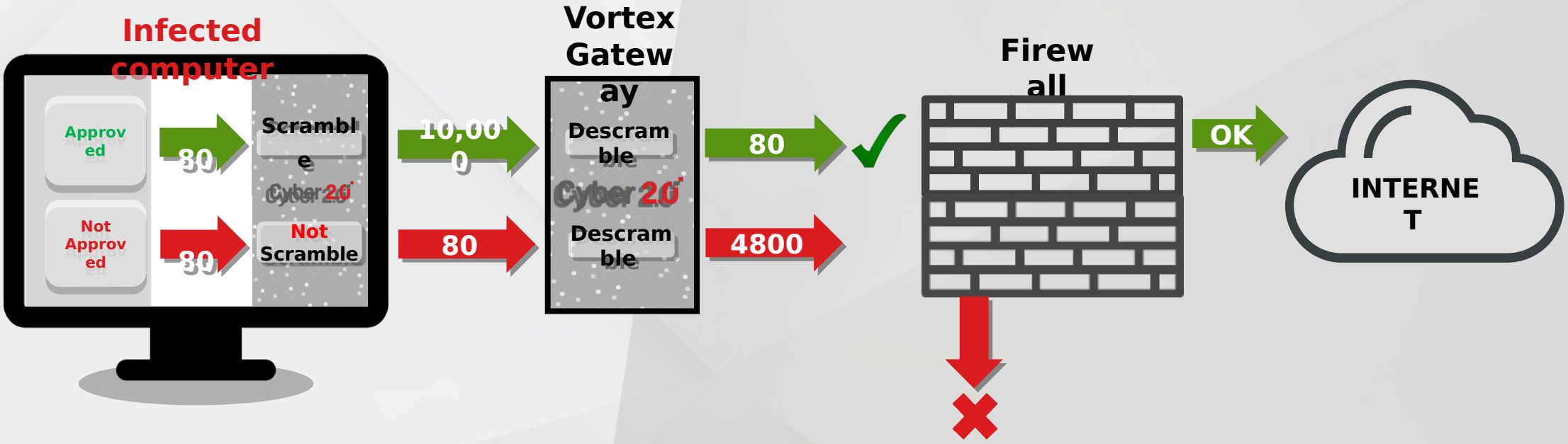

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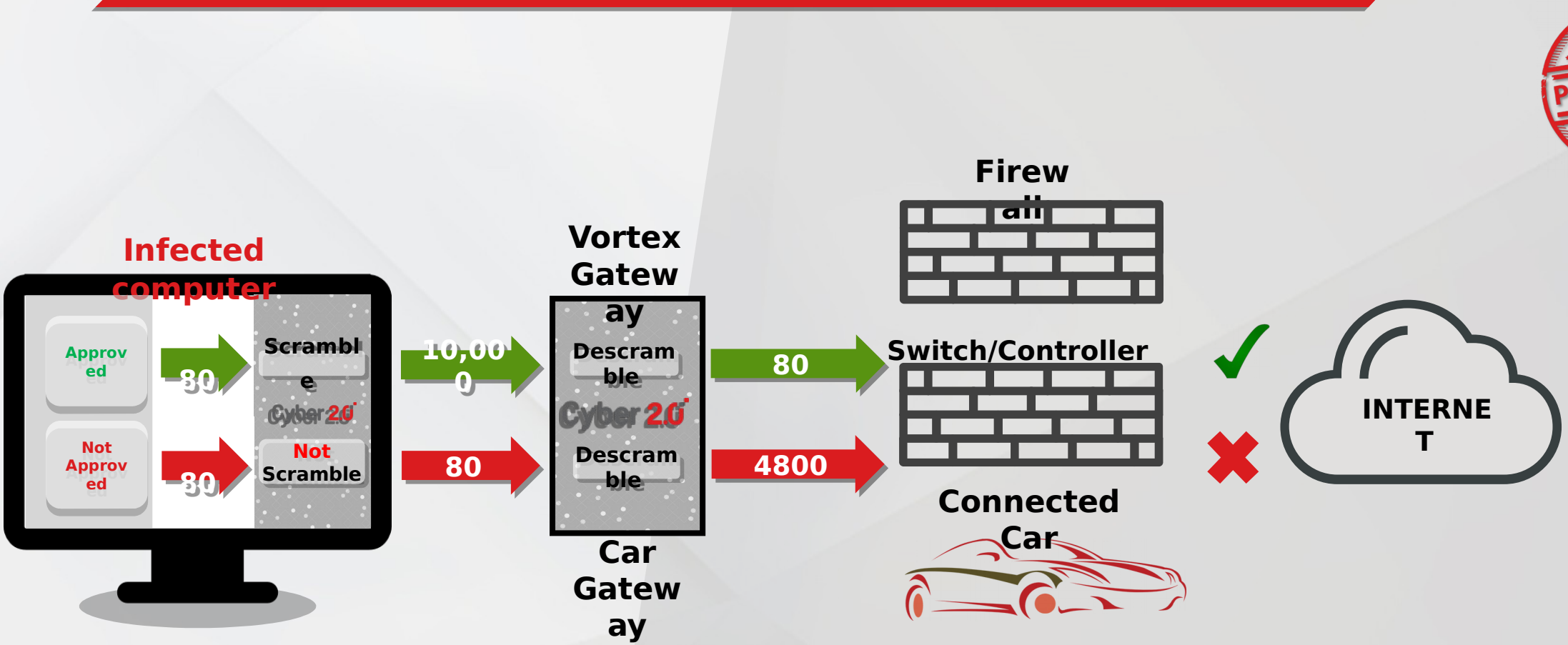
Vortex Gateway for the OT and Cars World



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Simple Installation

An Agent will be installed at any endpoint, connected to cloud service or internal server

Starting in Monitor Mode and than moving to Defense Mode

The system interfaces with your organization's existing systems, without the need for any additions or modifications

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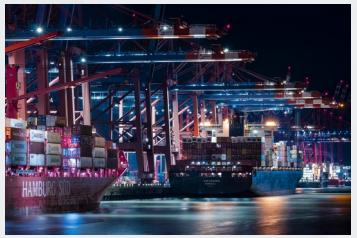
Among our Customers

Ports: The Israeli largest port.
POC in Barcelona,



Water Systems: The National water company of Israel+ 60% of the regional water systems

Army: The Israeli Navy

Industries, corporates

Hospitals: The largest hospital in Israel+ 18 hospitals in India

Airports: POC in Kentucky USA

security industries: The largest producer of engines for aircrafts

Power and electricity companies

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Contact Us

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Appendix

Cyber 2.0

WFH

- Employees ***WFH*** are ***exposed*** to cyber attacks
- A ***secured line*** to the company does ***not solve*** this problem
- An ***infected*** employee's ***computer*** with Cyber 2.0 installed keeps working ***normally***
- Cyber 2.0 will ***prevent malicious*** software and cyber-attacks ***from spreading*** in the organizational network
- Cyber 2.0 also ***protects*** employees from home in organizatio that ***have not installed a secure line*** at all

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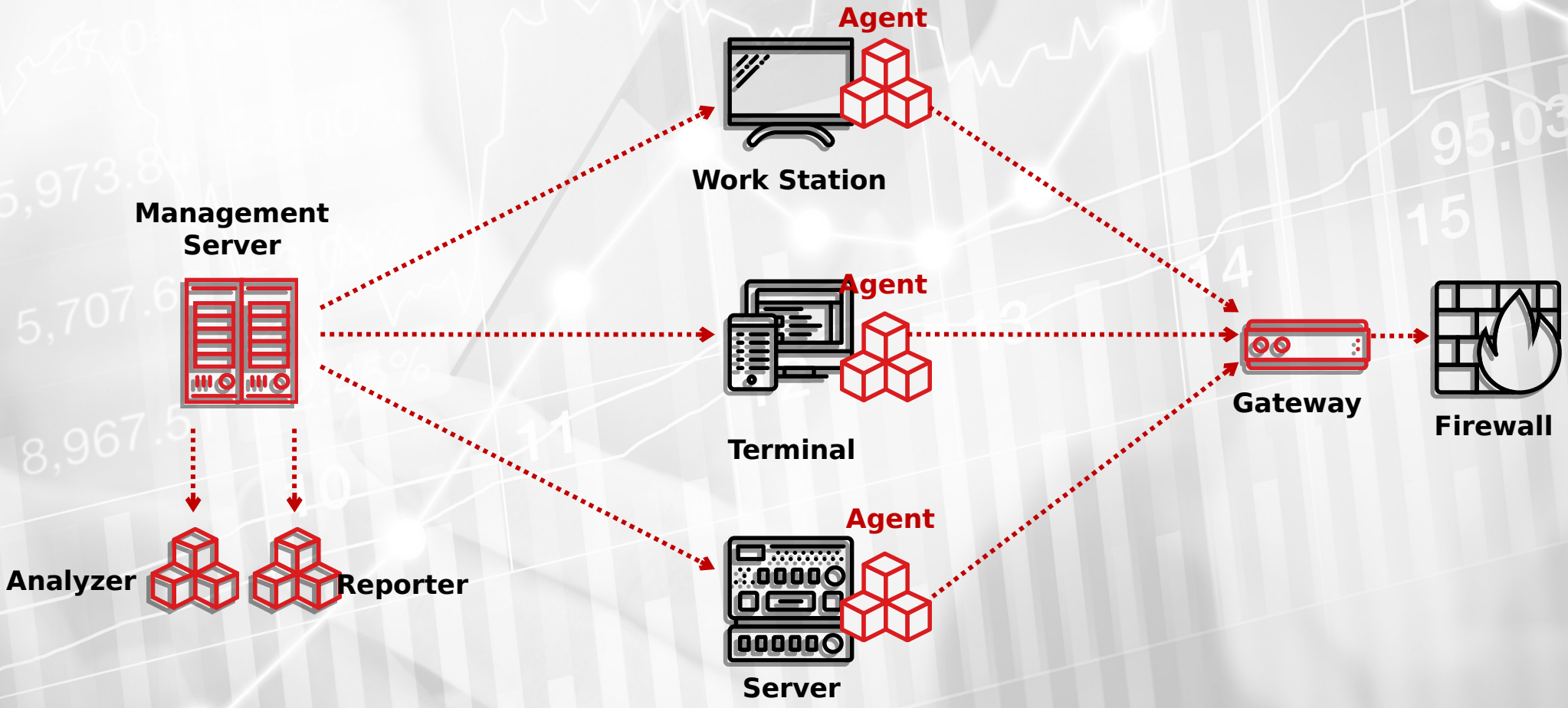
The Patents

- Unique Scrambling System- chaos engine (***approved*** US 9,838,368, US 10,313,318)
- Unique Server Support System (***approved*** US 9,794,277, US 9,985,981, US 10,333,956)
- Reverse Tracking Technology System (***approved*** US 10,616,231)
- Creating multiple Vlans without the use of hardware (***approved*** US 10,397,196)
- Unique Gateway System (submitted)
- Reverse Chaos for employees who work at home (submitted)
- Rendering Reverse Engineering ineffective (in process)
- Automatic creation of dynamic lists (in process)
- Chaos SSL (in process)

Cyber 2.0

Our System