# Operational Continuity & Cyber-Attack Recovery For ICS & OT **Systems**

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Salvador Technologies provides breakthrough technological solutions for operational continuity and cyber-attack recovery, ensuring an easy validation of the backup integrity with an instant restoration test.

Our mission is to ensure operational continuity by providing unique tools and features to minimize the downtime and allow recovery from any scenario.

The company's expertise is based on more than ten years of experience in the National Cyber Unit and elite intelligence corps of the IDF and on the passion for contributing to the global cyber security agenda.



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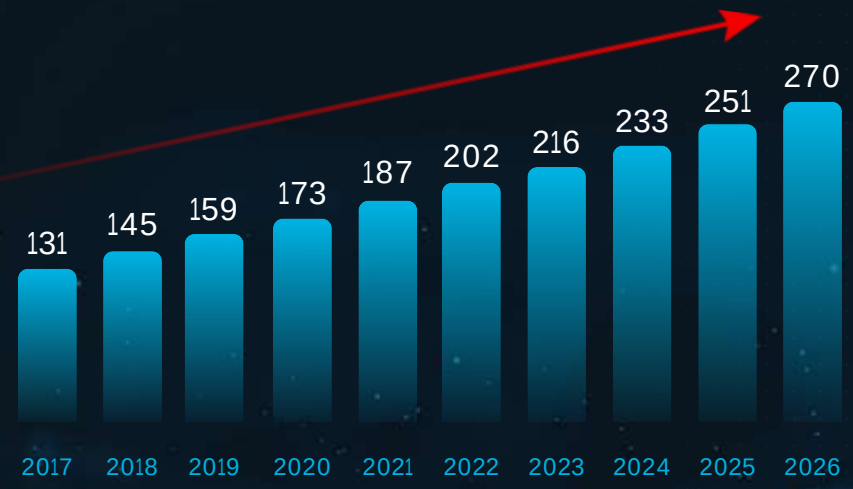
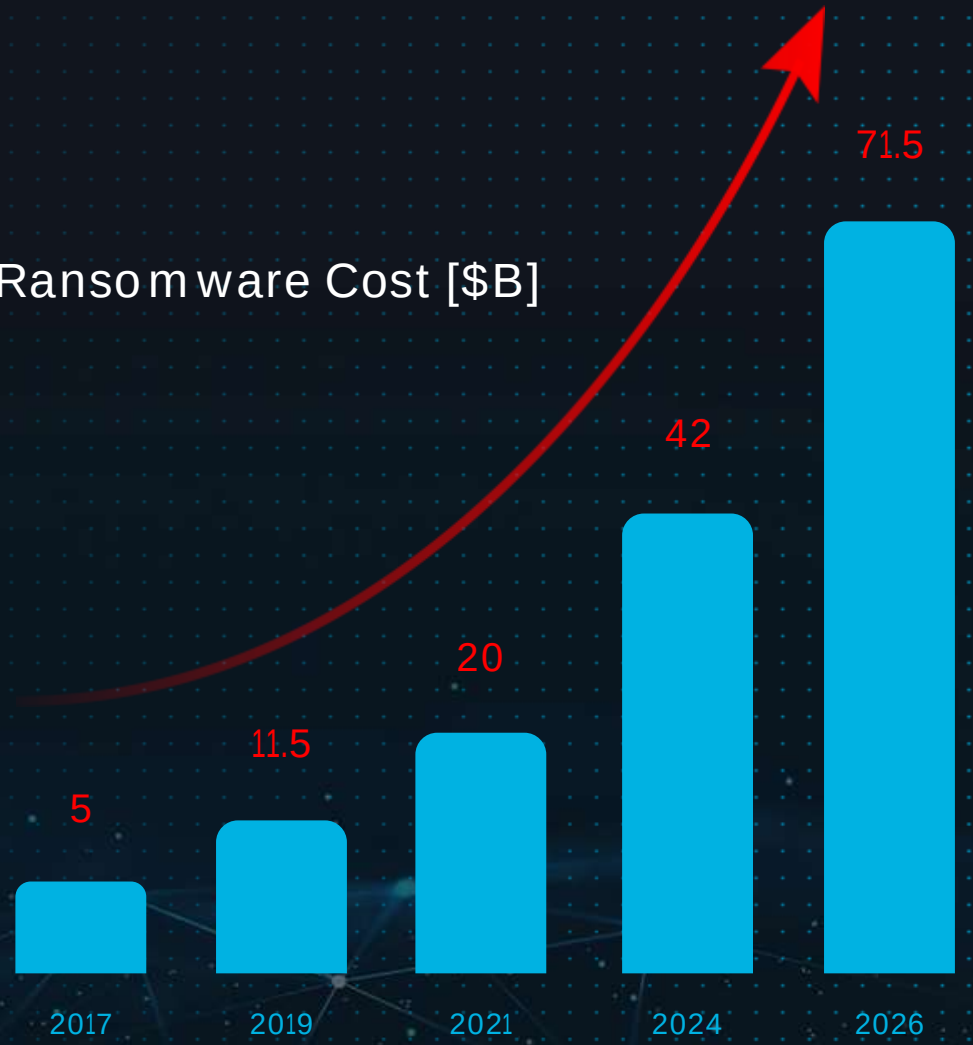
The offense is always one step ahead of the defense

# Incident response is critical

Security Investment: [M$]




Ransomware Cost [$B]

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# Major Problem: Downtime

One of the biggest problems in the OT & industrial world

Downtime Cost

$260,000
per hour*
(average by Gartner)

Manual and
Primitive Backup

External disks, Tapes

Slow Ransomware
Recovery

23 days recovery,
single source



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# Do you have a plan for an unplanned downtime?

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# Our offerings

Revolutionized patented air-gapped technology to ensure

- Operational downtime prevention
- Instant restoration
- Reduced risks of data loss
- Easy validation of the data integrity



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# 3 Layers of Defense

Air Gap Protection

Innovative Recovery Software

Continuous Monitoring

30 sec

and you're back on track!

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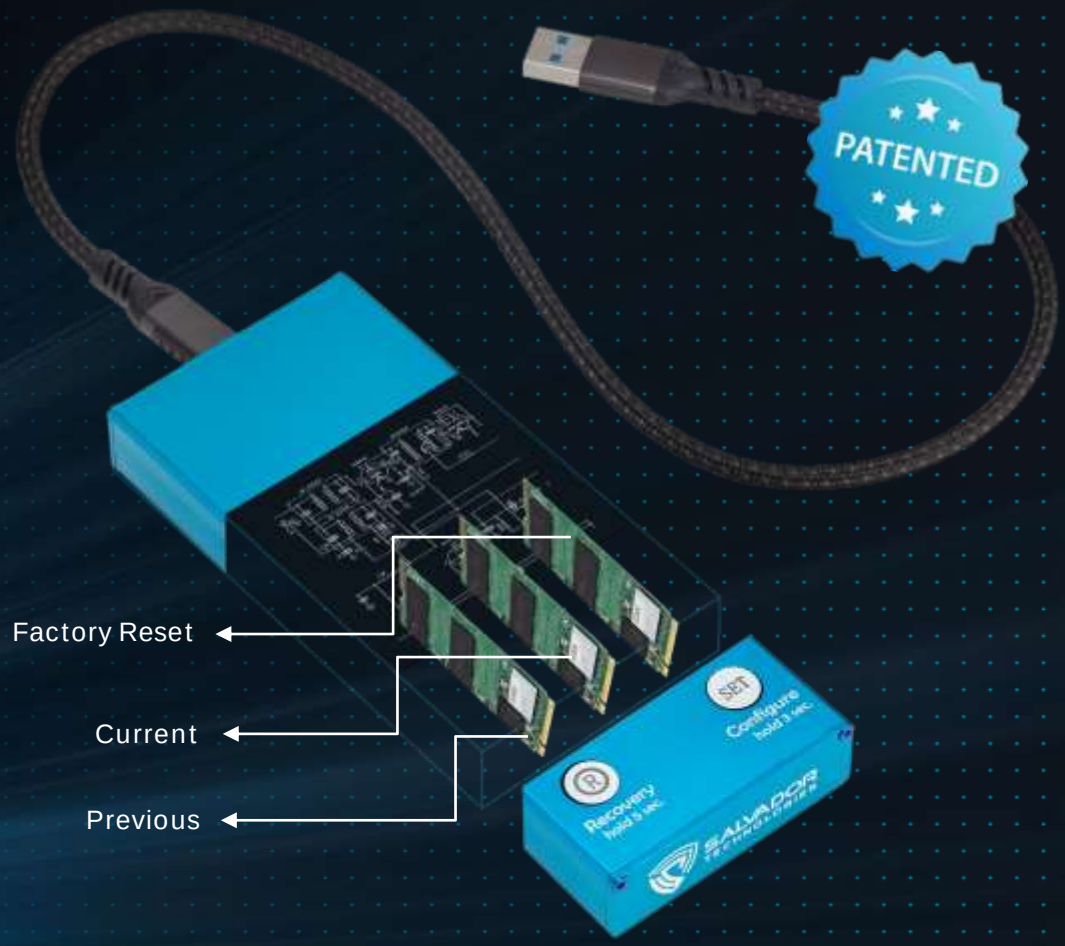
# Air Gap

The algorithm will not allow any external or internal control of this functionality from the computer.

It means, that every X days, a different disk will be accessible to the user for backup of the data – other disks are electronically offline.




Available capacity: 3 x NVMe drives

options: 512GB / 1TB / 2TB (PNs: CRU-512 / CRU-1000 / CRU-2000)

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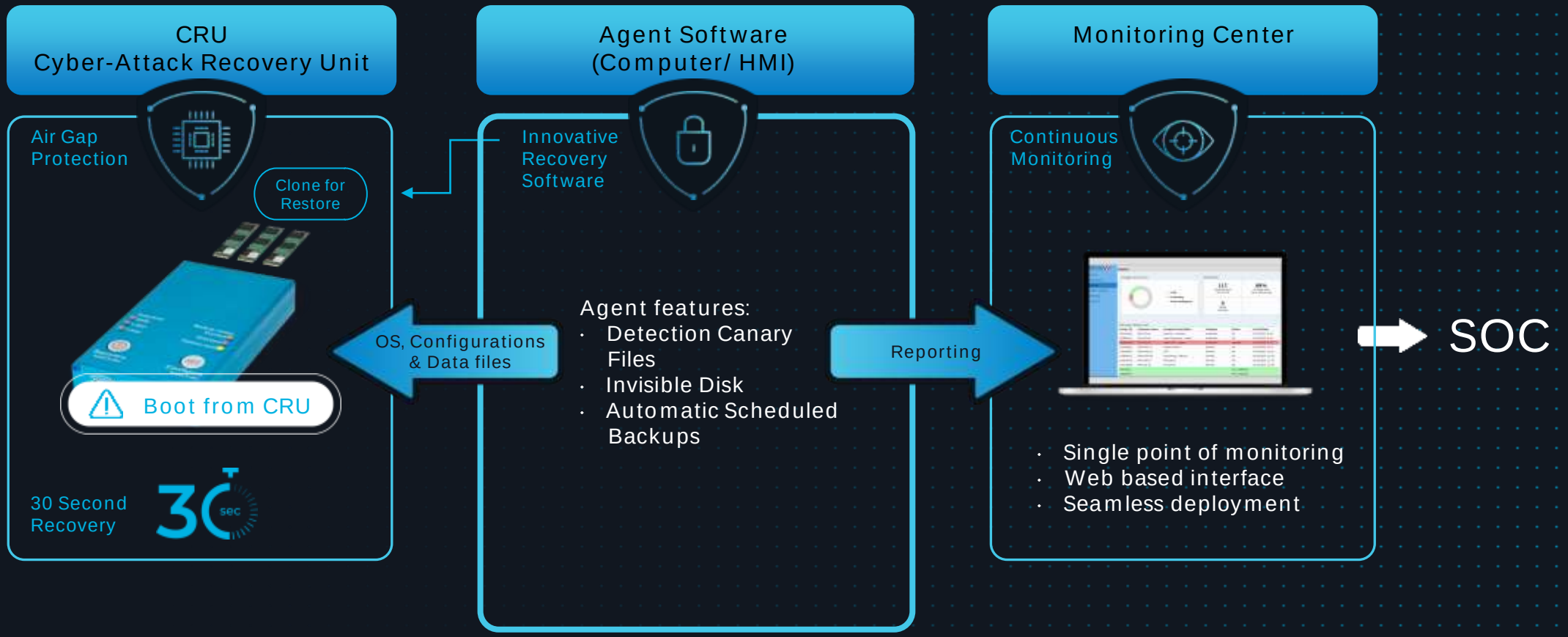
# STEP 1 –
# Downtime? Reboot Immediately!



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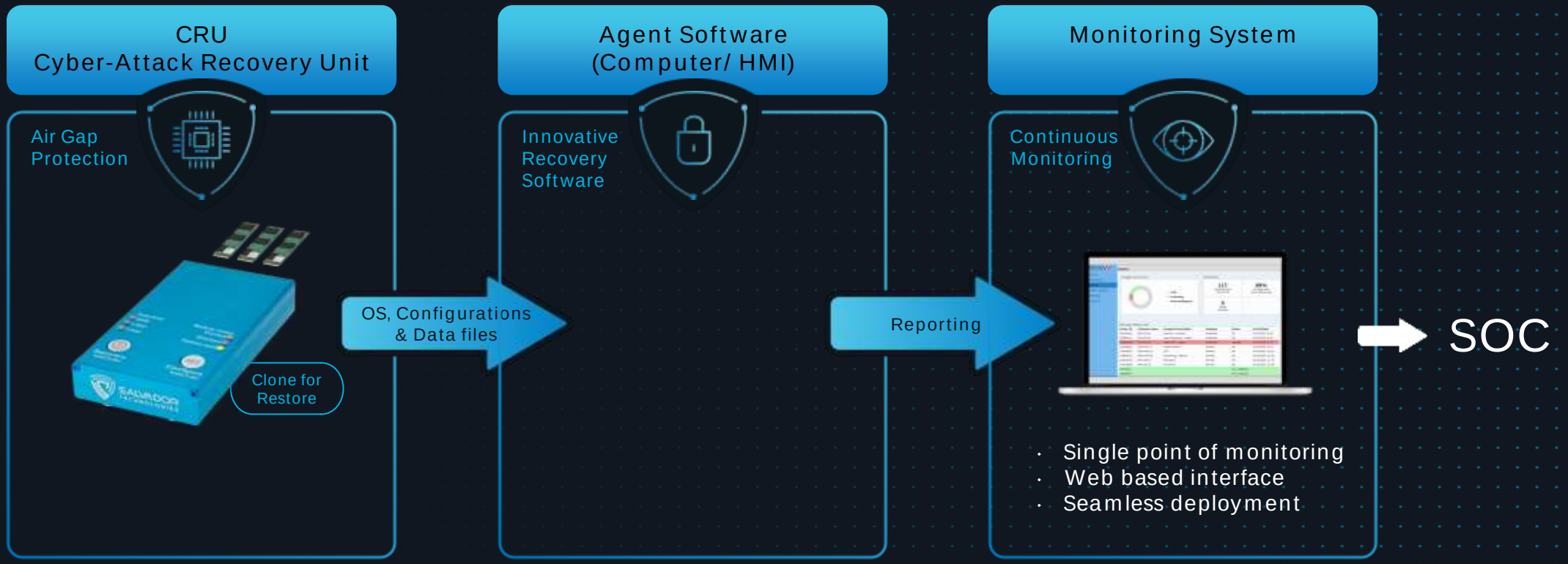
# STEP 2 –
# Keep working during data restoration



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# STEP 3 –
# Back to normal

**CRU**
**Cyber-Attack Recovery Unit**

Air Gap Protection

**Agent Software**
**(Computer/ HMI)**

Innovative Recovery Software

Agent features:
- Detection Canary Files
- Invisible Disk
- Automatic Scheduled Backups

⚠ Boot from Computer

Reporting

**Monitoring System**

Continuous Monitoring

- Single point of monitoring
- Web based interface
- Seamless deployment

SOC

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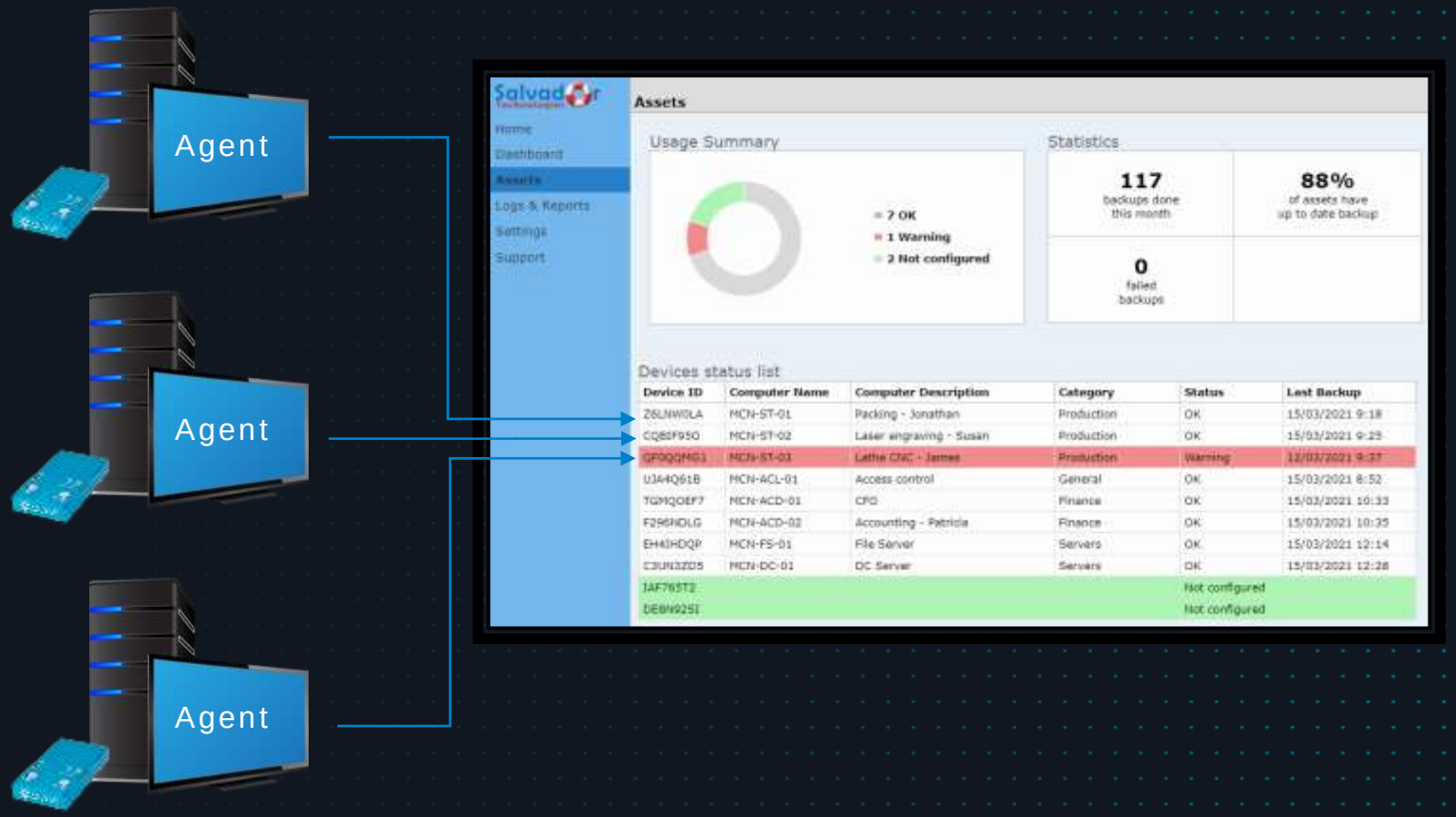
# Full Visibility

## Single-point reporting of the Backup status

- OK
- Report missing
- Attack detected
- Hardware Alert



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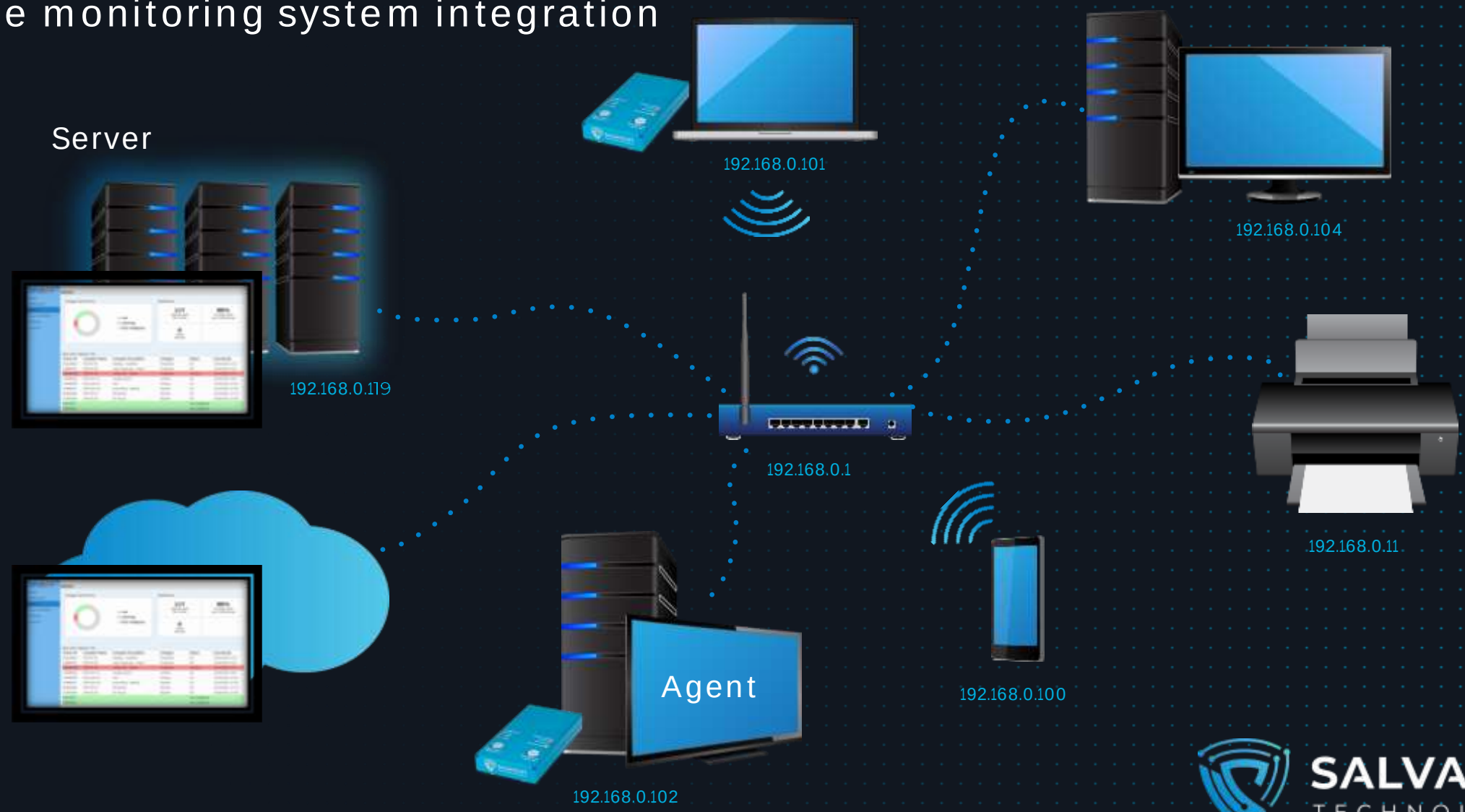
# Computer System Environment

## The monitoring system integration



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Our data loss prevention tools are easy to use – less than 1 minute of installation in order to protect the data from malicious encryption.

It requires only 30 seconds to return the system back to work in case of a cyber-attack or system malfunction.

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# Join our fast-growing customer base in Europe and the US

Manufacturing

Medical

Logistics

BMS

Critical Infrastructures

Energy



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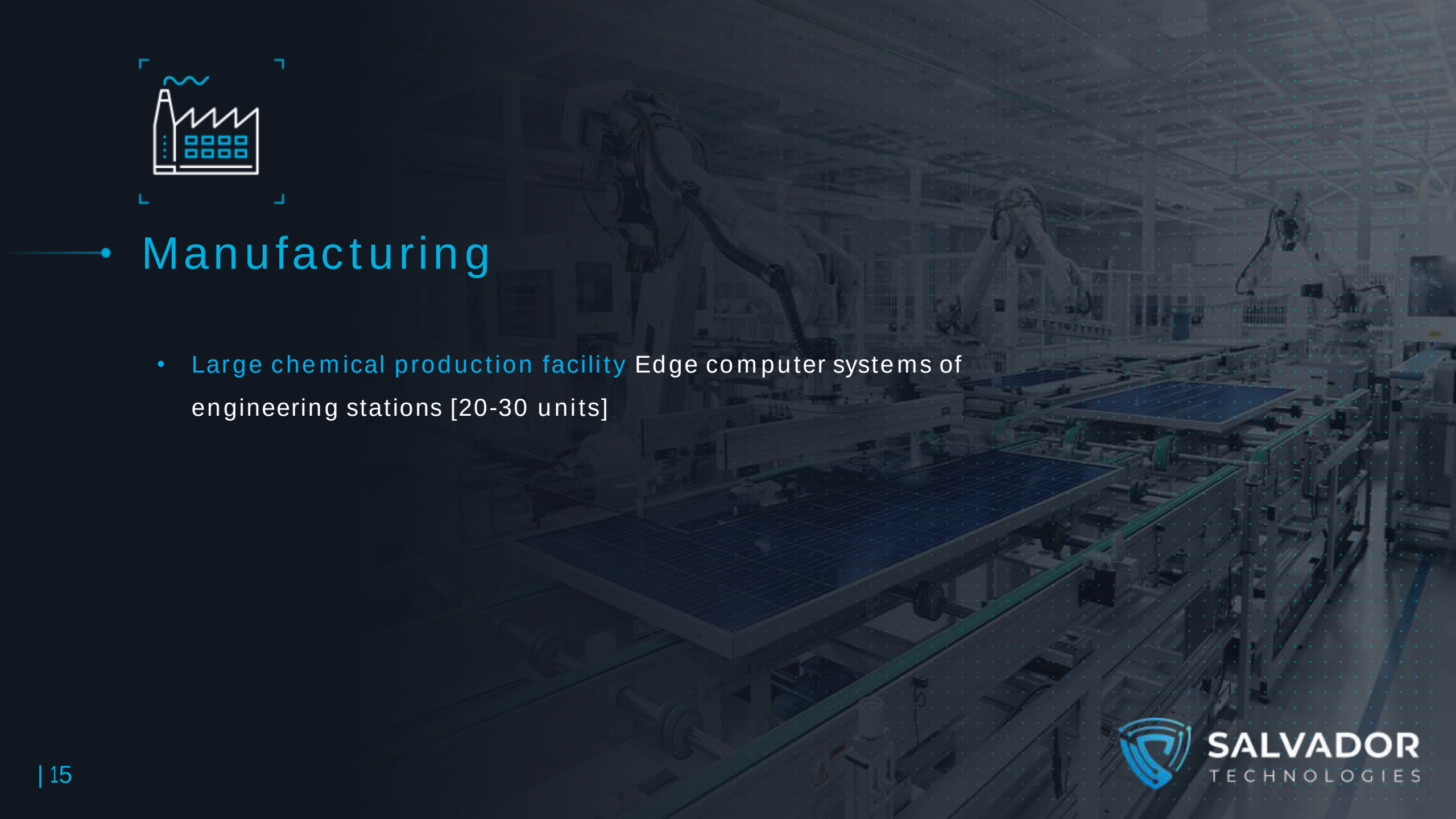

# Manufacturing

- Large chemical production facility Edge computer systems of engineering stations [20-30 units]

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# Maritime

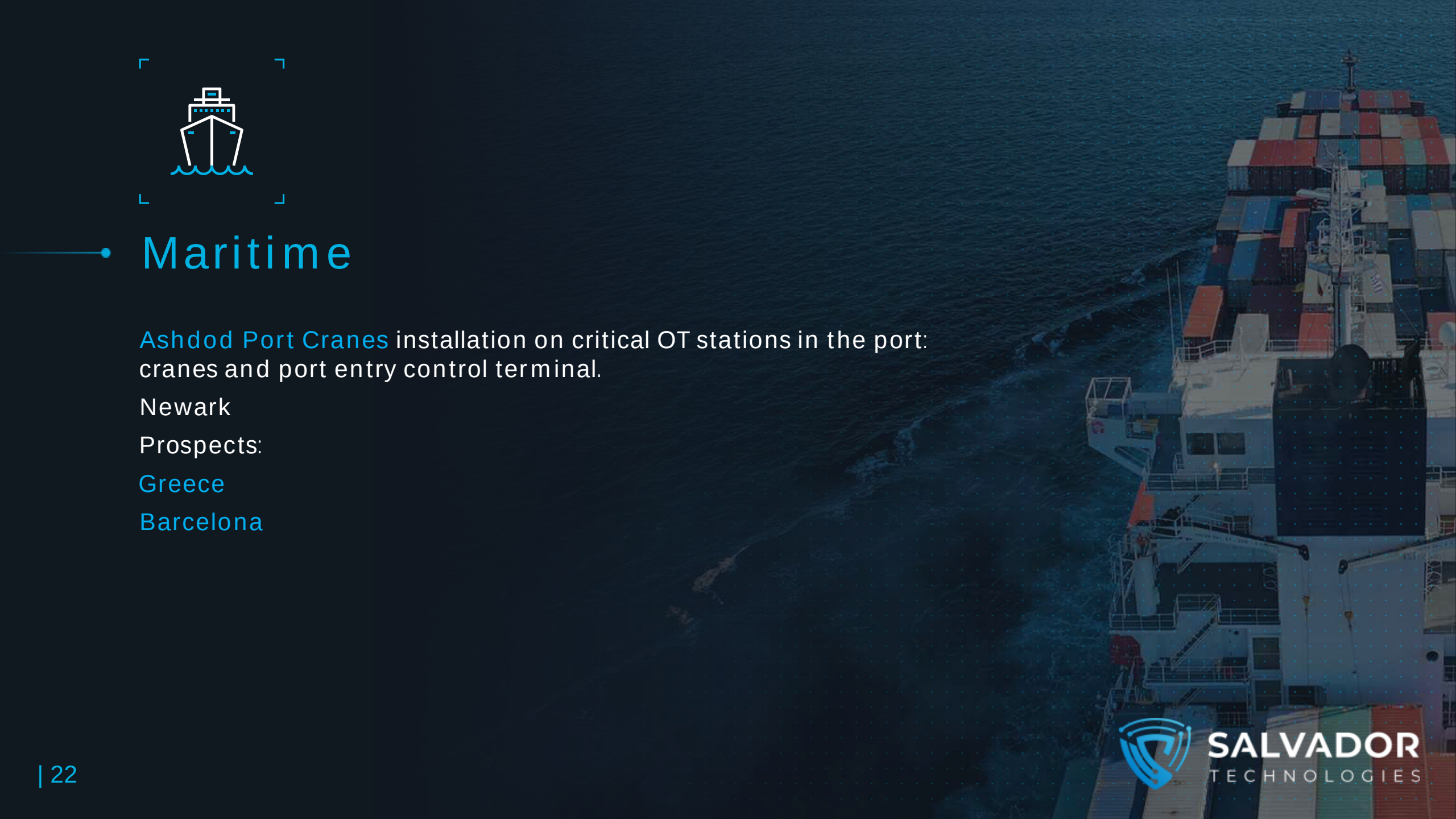
Ashdod Port Cranes installation on critical OT stations in the port: cranes and port entry control terminal.

Newark

Prospects:

Greece

Barcelona



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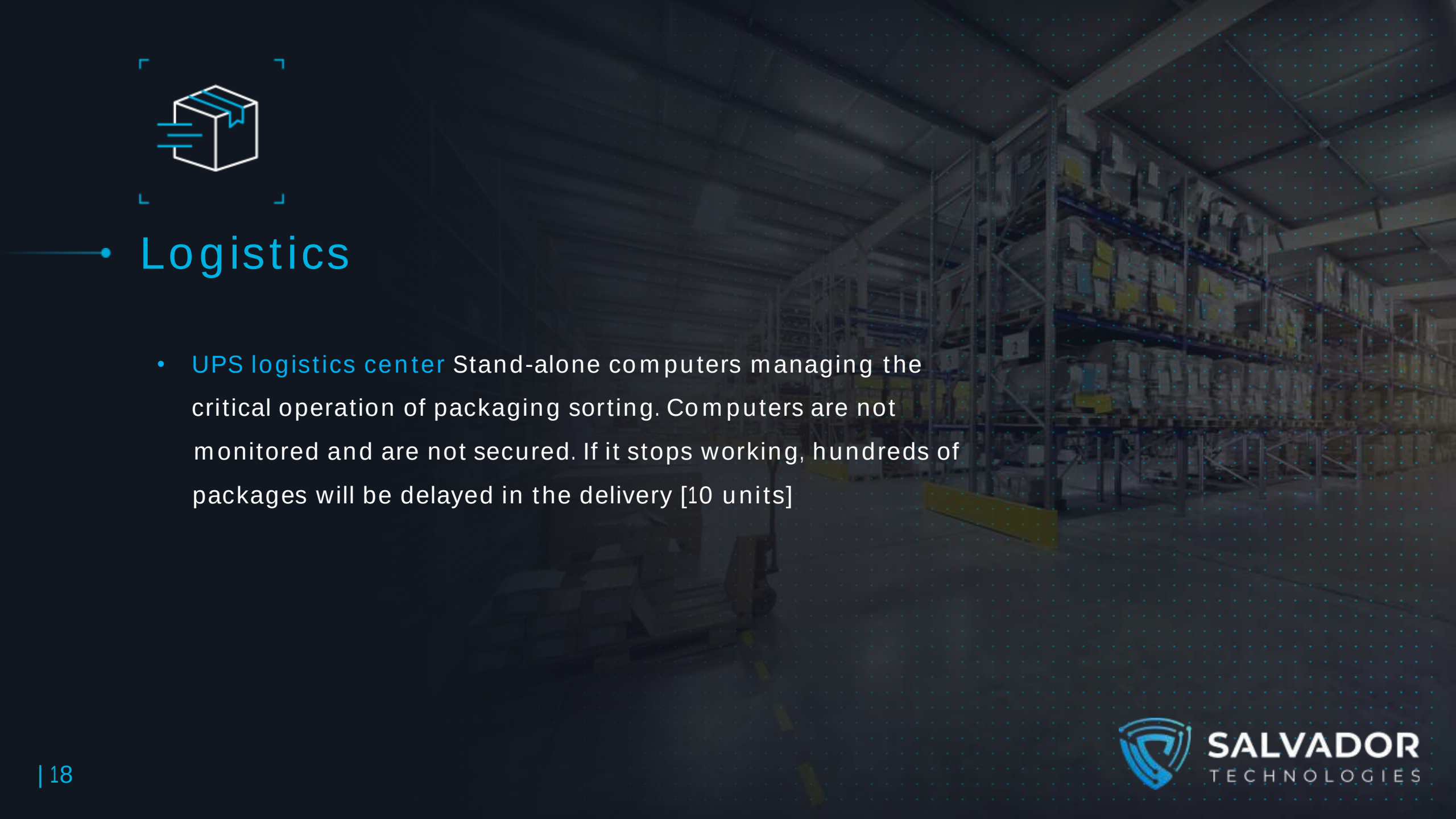

# Logistics

- UPS logistics center Stand-alone computers managing the critical operation of packaging sorting. Computers are not monitored and are not secured. If it stops working, hundreds of packages will be delayed in the delivery [10 units]



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# B.M.S

- Building management system of large datacenter facility: The servers which responsible for the operation of cooling systems, access control, elevators [10-50 units]

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# Critical Infrastructures

- Ammonia refrigeration system in case of downtime the operator needs to manually monitor dozens of end-point controllers. [10-20 units]
- Water Supply Plants HMI (SCADA) server that monitors water quality and controls the water treatment of densely populated areas in Israel [3-5 units each plant]

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# FAQ

### Why is your recovery so fast?

Our advanced backup software creates a full duplicate of the system, which includes the OS (Operating System), data files, drivers, and the unique user configuration. The attacker cannot reach, encrypt, or delete the data, as it is secured by air-gap protection. This allows the user to immediately reboot and operate from Salvador's disk, with no need for IT expertise, by one click of a button.

### Any solution for petabytes of data storage ?

Most of the critical assets can use our Cyber Recovery Unit (CRU) units for immediate recovery. For large capacity servers and private cloud, we have the Network Recovery Station (NRS) based on the DPU network adapter. This product is not limited by the capacity of your data.

### How do you avoid a backup of the virus?

We do continuous monitoring of the data of both the computer and the backups data. This allows us to immediately identify attempts of attacks, and inform the user to take an action.

### How do I perform recovery exercises for my company?

It is easy and will not require you to shut down your workstation. All you need to do is to plug off the unit from the workstation and then you can test the recovery process on a different computer (by booting from Salvador device, the whole process takes approximately 30 seconds).

### How do you deal with an APT virus ?

One copy of the data is never accessible before recovery to avoid APT virus infection. The two other copies are secured by a patented offline protection algorithm. Access to the data in those copies is time-limited and allowed only to dedicated Salvador software. The disks are invisible by the OS.

### How does it differ from a DR system?

Yes. DR (Disaster Recovery) is designed specifically for data loss in cases such as fire, water, physical theft. These are usually online solutions that are vulnerable to cyber-attacks. Salvador's solution is based on air-gapped protection storage to allow recovery from ransomware, wiper malware, and other types of cyberattacks.

### I have many end-computers in my organization, how can I deploy your product?

The deployment is very easy. The installation takes less than one minute per station. It means you can deploy hundreds of systems in a few hours.

### How do I perform a backup validation?

With our simple-to-use web monitoring system, you can see the status of all workstation in one management panel on the cloud or on-premise (in case no internet connection exists).



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# Meet Our Team

The Salvador Technologies team is composed of 11 highly experienced professionals, each in their own discipline, mission-oriented, and with great interpersonal skills!

The entire team is committed to Business Continuity Planning and shares the passion for contributing to the global cyber security agenda.

**Alex Yevtushenko**
CEO
Electrical engineer, specialization in VLSI and computer engineering

**Oleg Vusiker**
CTO
Electrical and electronics engineer with vast experience in the National Cyber Unit

**Amos Halfon**
VP Sales EMEA
29+ years of experience in Hi-Tech sales and building global markets.

**Sharon Caro**
Marketing Executive
15+ years of experience in business development, branding, and global strategies

**Ariel Maislos**
Serial Entrepreneur & Investor (Anobit)

**Prof. Hezy Yeshurun**
Co-Founder @ ForeScout
Prof. Emeritus @ TAU

**Bruno Darmon**
VP EMEA Sales
@ Check Point

**Gabriel Marcus**
Cyber Architect
@ Bank Discount

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