Blueprinting the Modern & Cyber Secure Maritime Industry
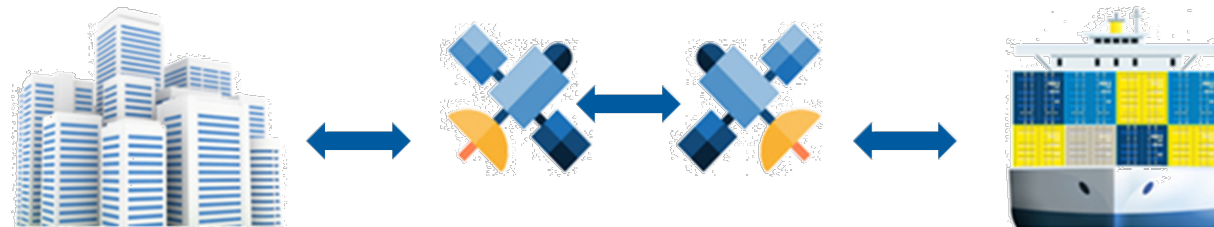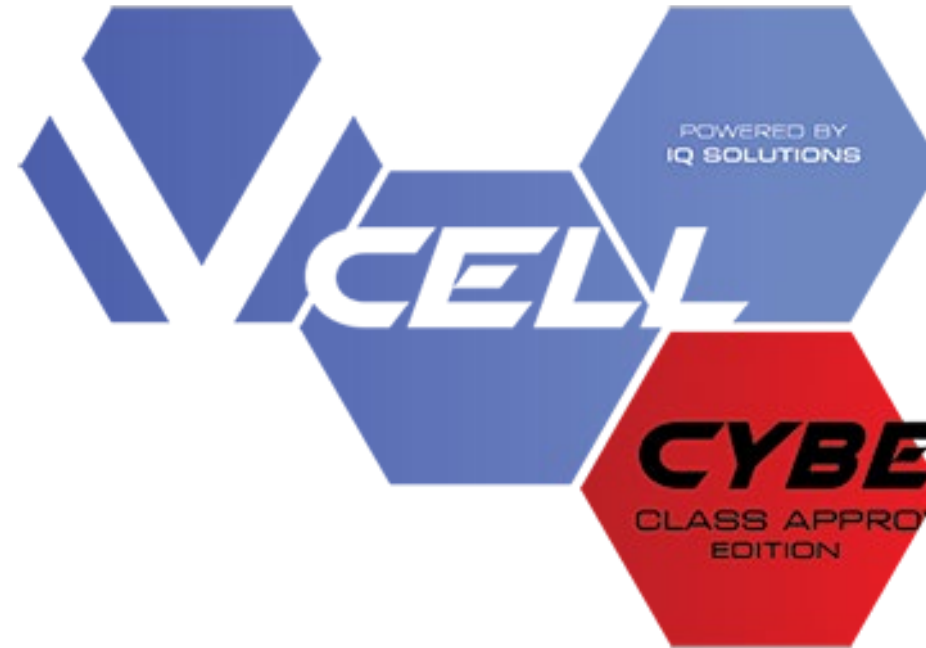
Still Addressing Maritime Cyber Safety?

The challenges we face today in implementing maritime cyber safety through cyber risk management, have been well addressed starting half a decade ago.

MSC-FAL.1 / Circ.3 "Guidelines on Maritime cyber risk management"

Effective from the 1st revision of the DoC of a vessel, after 01/01/2021

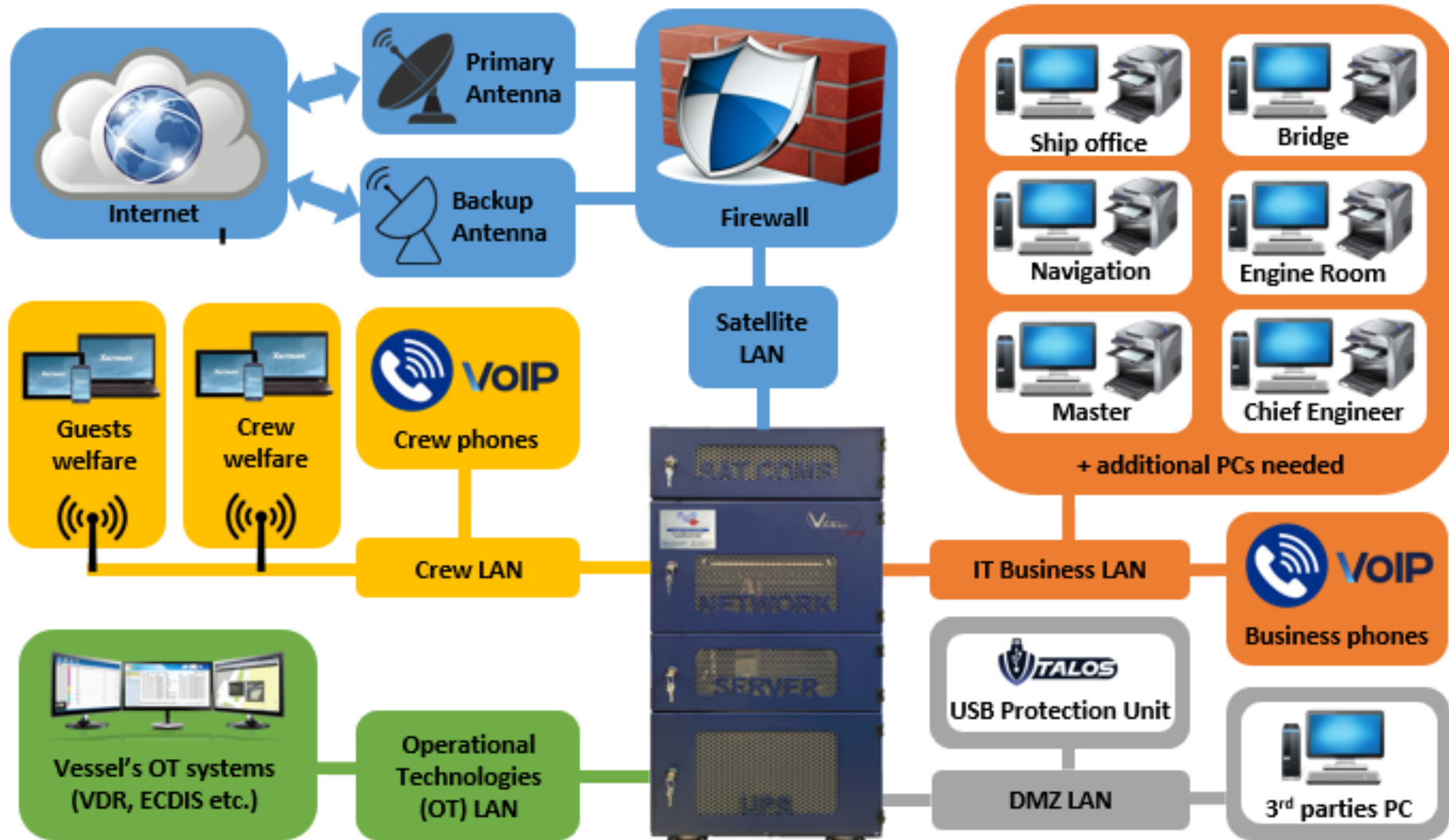How? Answers given through ISM Technical Notices

TN 24-2017 & TN 30-2020
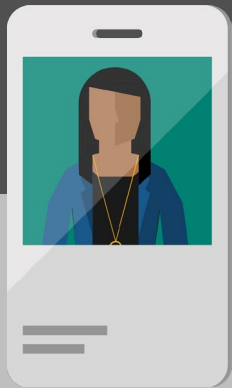
VCell Cyber Managed & Integrated Compliance Recipe

ISM TN 24/2017
Recommendations on Cyber Risk Management

The guidelines on cyber security onboard ships. BIMCO, CLIA, ICS, etc.

ISO/IEC 27001 IT standard. ISO, IEC.

US NIST framework for improving critical infrastructure.

ISM TN 30/2020
Plans and Procedures for Cyber Risk Management

Develop a complete inventory of at-risk systems.

Cyber threat & vulnerability assessment & exploitation impact.

Manuals for policies and procedures for cyber risk management.

CYBER SECURITY CERTIFIED BY ABS & BUREAU VERITAS

END-TO-END INTEGRATED ONBOARD MANAGED ICT

VCell CYBER CLASS APPROVED EDITION
360° Vessel ICT Cyber Security Solution

MANUALS & REPORTS INCLUDED FOR REGULATORY COMPLIANCE

24-7-365 TECHNICAL SUPPORT BY IQ SOLUTIONS' EXPERT TEAMS

End-to-end Integrated Onboard Managed ICT

Ample & Certified by IACS Members Approach

IQ Solutions Side

Corporate Side

Internet

Primary Antenna

Backup Antenna

Firewall

Satellite LAN

Guests welfare

Crew welfare

VoIP
Crew phones

Crew LAN

Vessel's OT systems (VDR, ECDIS etc.)

Operational Technologies (OT) LAN

Ship office

Bridge

Navigation

Engine Room

Master

Chief Engineer

+ additional PCs needed

IT Business LAN

VoIP
Business phones

TALOS
USB Protection Unit

DMZ LAN

3rd parties PC
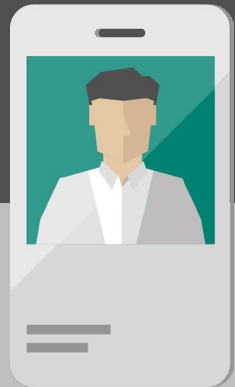
Marine Dept.
IT Support
Quality Dept.
Operations
Management

ICT Dept.
Technical
HSQE Dept.
Operations
Management

To Unify Your Vessel ICT Environment for Maximum Conformity

24/7/365 Technical Support and Corporate Resilience

VCell Cyber 24/7/365 Technical Support

Our Expert ICT Engineers are

- proactively checking your VCell infrastructure.
- immediately responding to any issue reported.
- timely updating the VCell software.

IQ Solutions Datacenter Services

Our ISO 27001 Certified Datacenter Services can

- run your entire operating activities.
- improve your productivity and agility.
- protect your data availability, confidentiality, integrity, reliability, auditability and security.
- streamline your data recovery process.

Global Excellence Recognition - Multiple IACS Certifications

Suitability for the Shipping Industry, by the American Bureau of Shipping (ABS) and Bureau Veritas (BV):

Product Design Assessment (PDA) Certificate, by ABS for Cyber Security

Type Approval (TA) Certificate, by BV for Cyber Security

Production Quality, by Bureau Veritas :

BV Mode II Certificate, by BV
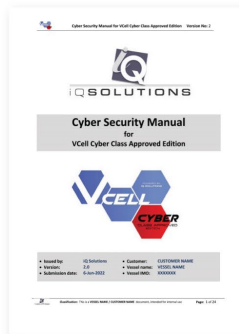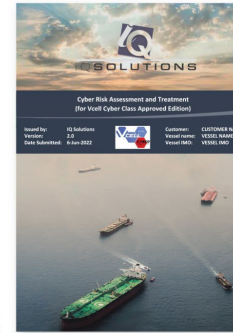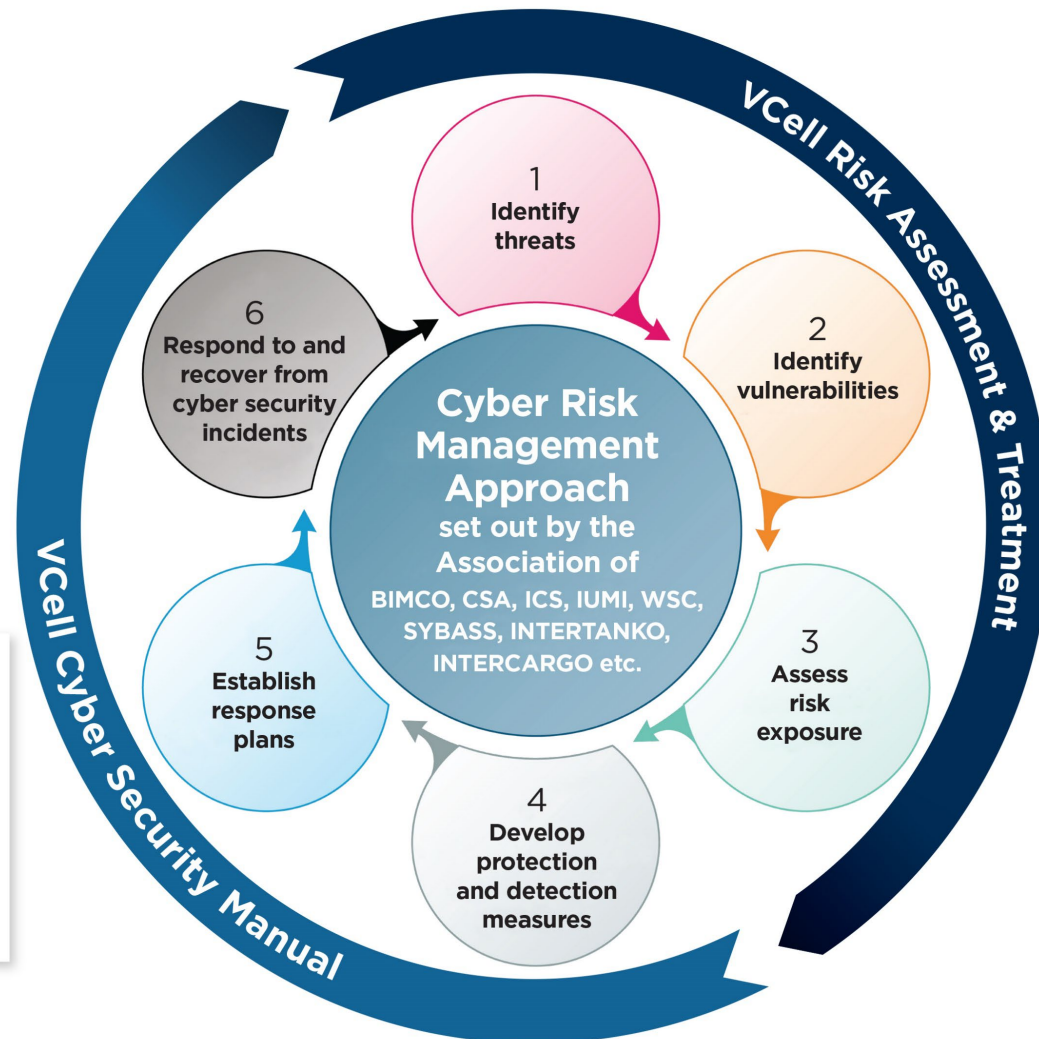
Secure Information Management, by Bureau Veritas:

ISO 27001 Certificate, by BV

Cyber Manuals & Risk/Vulnerability Assessments

VCell Manuals document that your ICT infrastructure remains compliant with the latest applicable cyber security requirements

VCell Cyber Security Statement

Rapid demonstration of your Cyber Security Compliance

Statement on the provision of ICT Services through the infrastructure "VCell Cyber Class Approved Edition"

Issued by: iQ Solutions S.A.	Customer name:	Vessel name:	Vessel IMO number:	Date of issue: 6-Jun-2022

"VCell Cyber Class Approved Edition" is a world-class pioneering product manufactured by iQ Solutions, providing high-level Cyber Security Services to the shipping industry. It consists of an ICT cybersecurity infrastructure designed in compliance with Bureau Veritas NR659 "Rules on cyber security for the classification of marine units", which offers network segregation & management and is supported by special documents developed in accordance with applicable regulatory requirements, thus covering both the technical and the procedural aspects of cyber security. VCell has been granted the following certifications:

BV Mode II Recognition	ISO 27001	Type Approval
Production Quality	Information Security	Suitability for Shipping Industry

It is hereby attested that the abovementioned vessel is equipped with the "VCell Cyber Class Approved Edition" infrastructure and has been provided with the relevant customized cyber security documents ("VCell Risk Assessment & Treatment Report", "VCell Cyber Security Manual").

This attestation is valid for 1 year and has to be renewed on **6 Jun 2023**.
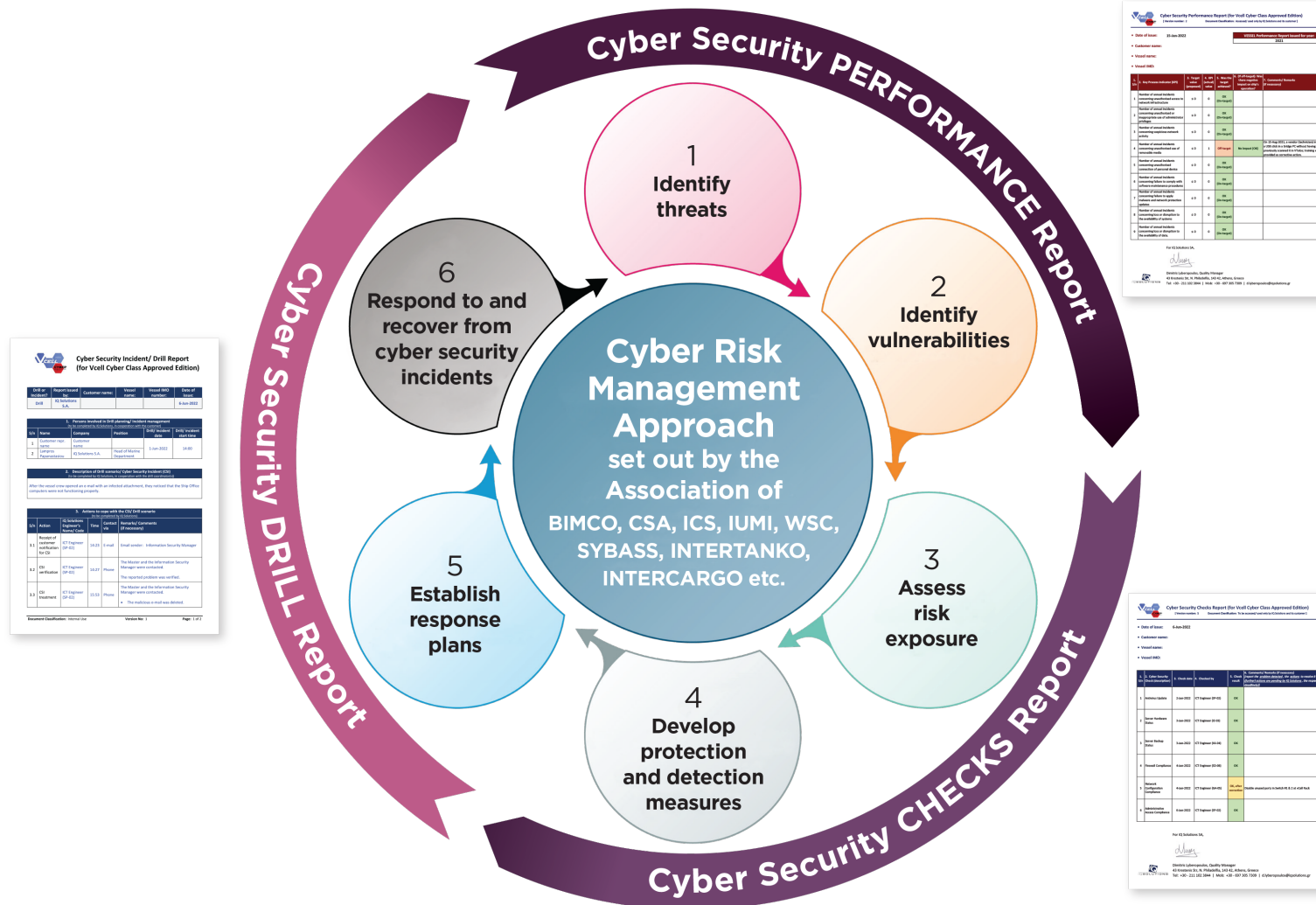
For iQ Solutions S.A.,

Dimitris Lyberopoulos, Quality Manager
43 Krestenis Str, N. Philadelfia, 143 42, Athens, Greece
Tel: +30 - 211 102 3844 | Mob: +30 - 697 305 7309 | d.lyberopoulos@iqsolutions.gr
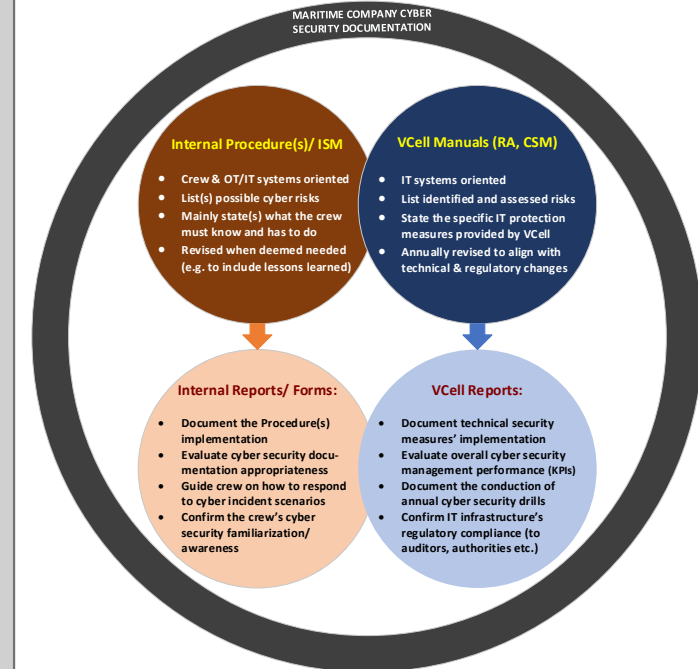
Cyber Reports on Checks, Drills & Performance

IQ Solutions Going Way Beyond Compliance

Communication Infrastructure

Central USB Protection Unit

CCTV

Build up an entire ecosystem of solutions:

VCell Cyber Class Approved

VCell Cyber Portal

Fleet & Corporate Intranet Portal

Augmented Reality Solution

Training Platform (LMS)

Q&A Time! Thank you all for listening!

I prefer emails really…p.gavalas@iqsolutions.gr