

110m+ Superyacht – Security Upgrade

Key Features

- Axis CCTV Cameras
- Paxton Access Control Units
- Suprema Bio Card Readers
- Cisco Network
- Cortech GUI Updates

Brief

Our client required an upgrade to their existing security system on a 110m+ Superyacht . This would be done over a number of phases due to the limited length of yard periods available. The first phase, to be carried out in Germany, was to add two extra external CCTV cameras to cover a couple of blind spots along with securing all external doors. The second phase, to be carried out in Spain, was to secure 30no+ internal doors and install CCTV within the technical corridors.

Phase 1 - Security Solution

Jaymo added two additional Pelco cameras to external areas and integrated them into the existing Pelco and Cortech system.

To secure the external doors, Suprema BioReaders were added on each door, requiring additional infrastructure cabling to each ACU location provided from the security BEC's. The ACUs were located as securely as possible to the doors internally so that the cable lengths between the BioReaders and ACU's were within the manufacturer's guidelines. On the internal side of the vessel a push release button was added for exiting the secure door as well as an emergency break glass.





Cont...

The BioReaders give the vessel the capability to use fingerprints, fobs or NFC to access the vessel securely. The readers and exit buttons release the heavy duty drop bolt lock that was required at each location.

Network Solution

Due to the additional security equipment an increase in the number of switches was required. In addition, the existing Cisco switches becoming end-of-life these were upgraded to enterprise 9300 models with 5 years 24/7 hardware support.

Phase 2 Security Solution

Phase 2 added an additional 14no Axis cameras to the technical corridors and integrated them into the existing Pelco and Cortech system. All cameras were flush mounted into the deck heads and trims were painted the same colour so that they were as unobtrusive as possible.

There were 35no door to be secured, 5no of these doors already had Paxton readers installed so additional network cables were added to each of these 5no locations for the BioReaders before being and recommissioned.

To secure the remaining internal doors the same Suprema BioReaders were added at each location. Additional infrastructure cabling was required to each ACU location, again these could only come from the security BECs. The ACUs were located on the secure side of the door in order to make these areas fully secure. The doors were replaced by the shipyard, along with replacing the standard door handles with mechanical ones.

Due to the lead-time of the doors and the short period of time in the yard it was not possible for the remaining doors to be replaced and so this work was moved to a future 3rd phase.



Partners



Result

Jaymo successfully completed this project in the most challenging of circumstances during the Covid-19 period. We were able to keep most of the systems running while upgrading the Door Access and CCTV systems only causing minor, scheduled, outages. Through teamwork with the onboard team and our chosen suppliers, Jaymo delivered this upgrade on-time, on-budget and to very highest of standards.