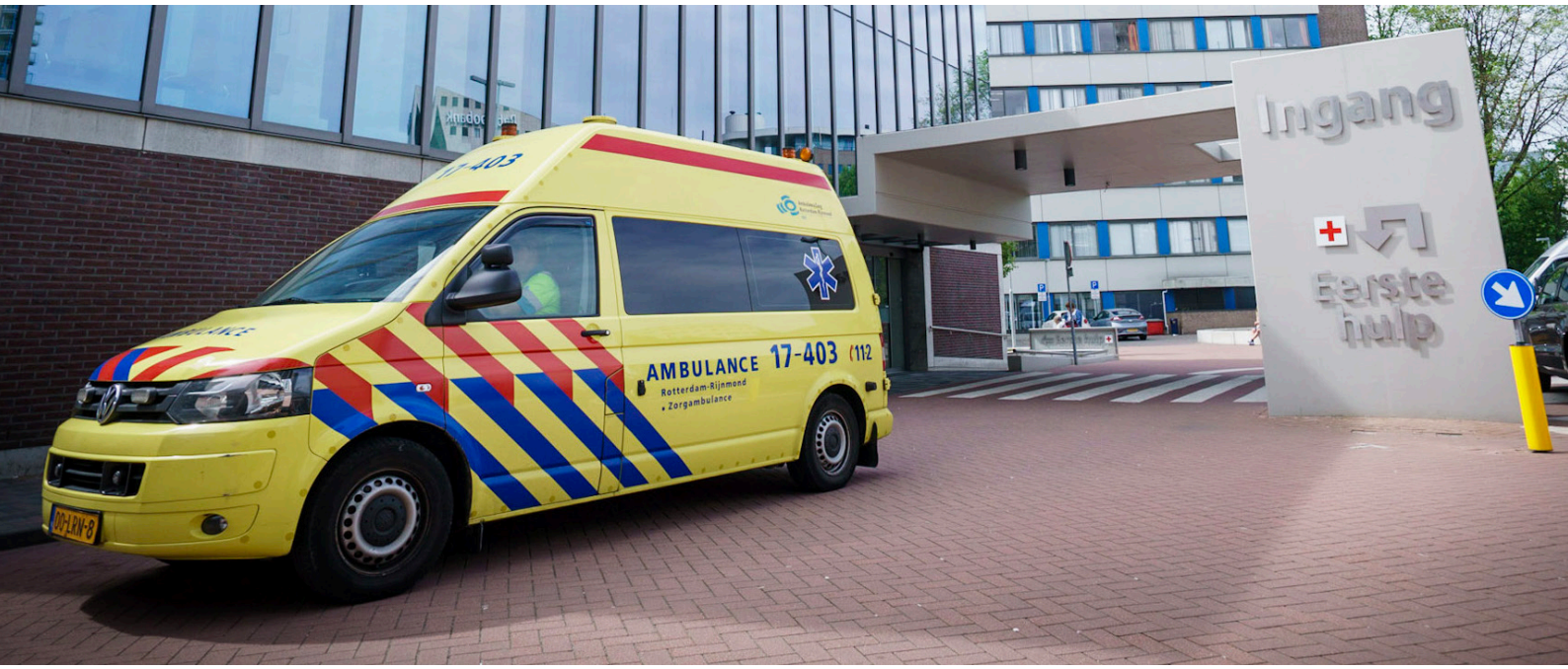
Orange
Cyberdefense

Customer stories

Ikazia Hospital opts for a future-oriented security solution



Ikazia Hospital

Nr. 2

Ikazia is the second largest hospital facility in Rotterdam.

3 core values

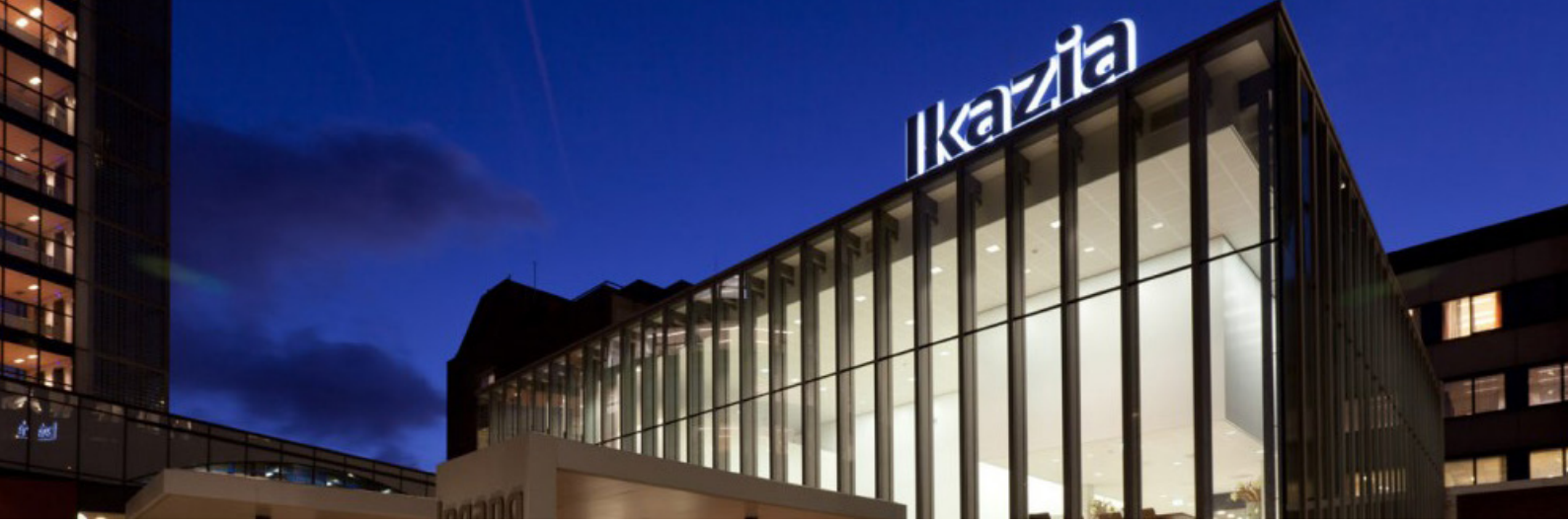
The three core values of Ikazia are efficient safe and patient friendly operation.

In the Ikazia Hospital, situated next to the Zuidplein in Rotterdam, everyone works together to continuously improve high-quality care. Ikazia strives to be more than a "good" hospital and this is reflected in all departments. “We want to offer our patients something extra. That is exactly what makes us distinctive in healthcare,” says Patrick Dekkers, ICT Coordinator Ikazia Hospital. Ikazia needed a new and safe infrastructure that could meet the wishes and requirements of the medical staff and patients in the coming years.

Big increase in data

The amount of data that is transported over the hospital's network has increased enormously over the past decade and therefore demands a lot from the network. More and more services were linked to the non-tiered network, which did not improve performance.

Patrick Dekkers regularly received feedback from the organization that the wireless coverage was not sufficient. And since the core and access switches were also due for replacement, Ikazia issued a tender that was won by Orange Cyberdefense. Patrick Dekkers had clear requirements for what the new network should look like: “I wanted to implement a zero trust model; a layered, stable, safe and future-oriented network based on performance and manageability. Orange Cyberdefense's security consultants and engineers set to work on this and designed a state-of-the-art infrastructure based on components from Juniper Networks, Aruba, a Hewlett Packard Enterprise company and Palo Alto Networks in combined with 7 * 24 hours NOC service from Orange Cyberdefense ”, says Patrick Dekkers.



"We have grown in a smart way from an outdated network to a layered, future-oriented infrastructure".
Patrick Dekkers | Coordinator ICT

Zero Trust model

All components are designed to meet the current demand of the Ikazia Hospital, but with flexibility for the future, so that quality can be delivered to healthcare at all times. The internal and external next generation firewalls, from Palo Alto Networks, are equipped with Threat Prevention, URL filtering and WildFire. Juniper Networks' core and access switches can grow with the development of Ikazia, as new stacks can easily be added to the core switches without affecting performance. The network is also fully segmented in a zero trust model, which introduces different layers of security into the network. The Network Access Control solution ClearPass Policy Manager of Aruba HPE is connected to this and takes care of the authentication for the different types of devices. In this way it is clear who connects to which part of the network when. Without authentication, access is only granted to the guest wireless network, which is completely isolated from the hospital network. The new data center environments are protected on the inside by network segmentation. All north-south traffic passes through the internal firewall. The next-generation endpoint security solution from Cylance has also recently been added to the 'state-of-the-art' network. The immediate reason for switching from the traditional virus scanner to CylancePROTECT is that it is not vulnerable to zero day malware (such as cryptolockers) and exploits.

For a hospital that works 7 * 24, ransomware is not only annoying. It can put actual lives at stake; failure of devices or systems is unacceptable.

No more downtimes

Finally, all active components are continuously monitored by Orange Cyberdefense for correct operation and possible malfunctions. The network is built redundantly, so that regular management, which is also in the hands of Orange Cyberdefenseww, can be carried out at any time. “The chosen network design means that Ikazia Hospital can perform updates and changes without downtime. This is necessary because the Ikazia Hospital must always be operational ”, says Patrick Dekkers.

“We started this large project with the roll-out of the new wireless network, as the demand from the user organization was greatest here. Then we slowly converted the old network into the new network, whereby the SER rooms and workplaces take the most time. We have grown smartly from an outdated infrastructure to a layered, future-oriented infrastructure. And we have chosen an excellent partner in this, so that we are and remain secure now and in the future, ”concludes Patrick Dekkers.

CYLANCE

aruba
a Hewlett Packard Enterprise company

JUNIPER NETWORKS

paloalto NETWORKS

Grow in a smart way

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