Device Technologies delivers better patient outcomes and innovation with hybrid IT environment

Client profile
Device Technologies supplies medical solutions to hospitals and healthcare professionals throughout Australia and New Zealand, expanding into Asia. They represent over 200 brands and employ approximately 1,000 people. Device Technologies’ ethos is to provide innovative technology and solutions for better patient outcomes and their values are linked to four key areas of their business: innovation, collaboration, ownership and good business.

Which services?
• Infrastructure Consulting Services

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Summary
An ageing data center infrastructure that was reaching end of life was the catalyst for change for Device Technologies. The resulting hybrid IT environment, deployed with the help of NTT, incorporates a hyperconverged data center infrastructure for core services and cloud-based applications and services for other business applications.

This new stable, secure and scalable infrastructure provides them with the platform they need to support ongoing business growth and diversification, as well as digital transformation and the development of innovative new services – all with a goal of creating better patient outcomes.

Business need
Flexible, agile infrastructure to meet ongoing business growth, diversification and geographic expansion

Device Technologies has enjoyed double-digit annual growth for the past 10-15 years, primarily through acquisitions that have both extended and complemented their products and solutions portfolio. Their own acquisition by Navis Capital Partners in 2019 has resulted in the company’s expansion into Southeast Asia. Adding to the complexity, Device Technologies is currently managing more than 70,000 individual products from 200 different brands.
We’re an agile organization, so we’re pretty happy to disrupt ourselves because the market is changing so dramatically,” said Graham Cronin, CIO, Device Technologies. “And where things are going is that we need to digitize our processes and services to make it easier to provision equipment to medical practitioners or clinicians. We also need to be able to acquire companies and bring them on in an agile fashion.”

Device Technologies has a two-tiered acquisition strategy to remain agile and responsive. If the product line being brought on is complementary to SKUs already in the system, the acquisition will be brought into Device Technologies’ SAP ERP system. If the acquired business is already running successfully and has a separate product line, then an integration layer provides the connection between the two businesses’ systems until the time is right to consolidate.

With a data center infrastructure approaching end-of-life and business growth expected to continue, Device Technologies needed to have a stable, secure and always-on platform, that gave them the flexibility to pivot and meet market demand as required.

Solution

Balancing in-house core skills retention and the efficiencies of outsourced cloud services

In 2017, Device Technologies started working with NTT on building out their IT strategy by conducting a Future State Architecture Assessment. The outcome was a hybrid IT model that was made up of an upgraded, hyperconverged data center for core systems, and cloud services for peripheral services and applications that need to scale.

“When we looked at the numbers in going from a three-tiered architecture to a hyperconverged environment, we found that our “mothership” was better off staying within our data center environment,” said Cronin.

Device Technologies maintained agility by designing their updated data center environment with the option to either own and operate it themselves, or outsource it as a managed service in the future. They also have a hybrid operational model, managing their own core ERP infrastructure, while outsourcing management of their peripheral services, such as their e-commerce platform and HR payroll, which are running in the cloud.

By maintaining their own ERP environment, Device Technologies keeps their core skill sets in-house, and the hyperconverged (or private cloud) infrastructure they are managing prepares their team for DevOps. This allows them to have their applications cloud-ready for a future migration path to the cloud once their in-house data center assets reach end-of-life.

Outcomes

Extending digital services for greater innovation and better outcomes for patients and healthcare providers

The new hyperconverged data center environment has given Device Technologies greater agility and flexibility to meet changing market needs, and a platform for innovation. That allowed them to import around 1,200 ventilators to support hospitals dealing with COVID-19 – a 1,000% increase on their normal supply levels. They were able to adapt some of their systems to process the ventilators faster and certify them for Australian conditions.

The platform enables the extension of the digitization of their services, including the development of a new surgery booking portal for hospitals, ensuring that the required devices and any supporting personnel are scheduled accurately to assist with upcoming procedures.

“We do a lot of surgeries – for orthopedics, spinal reconstructions and other critical operations – where implants need to be inserted. If you’ve got a patient on the table and you need something in a hurry, relying on emails and phone calls can be really problematic,” said Cronin. “Now, not only is the patient being operated on when it needs to be done, but the surgeons are happier because they’re keeping their lists flowing and the hospitals are happier because they’re not wasting money by taking up a bed when it could have been available for another procedure.”

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Device Technologies has also benefited from attending the NTT R&D Forum, an event in Japan showcasing a range of cutting-edge technologies that are in development.

“The thing that hits me is the diversity of solutions and technology that NTT provides. Going to NTT’s R&D Forum opened my eyes to the art of the possible, and also that NTT can play in that space. Having been twice now, I’ve been able to see the development of some of the technology, how it’s evolved, and how the use cases are developing and where that could go,” said Cronin.

The event experience is helping Device Technologies to explore further innovations in data science to better predict the demand for certain products and devices, and providing technologies and supporting services to support patient recovery at home.

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