## **NETWORK** BUILDERS

Whilst working at Nanyang Technology University, Lee Chyan and his fellow researchers formed the company RFNet, with the sole purpose of commercialising on the recently standardised Wireless LAN technology. However, competition from abroad forced them to rethink their business strategy, and the team began taking the company in a new direction.

MR. LEE CHYAN (DERIC)

MANAGING DIRECTOR (CO-FOUNDER) RFNet

n 1999, the Wi-Fi Alliance for WLAN him and his associates. (Wireless local areas technology) was the Wi-Fi trademark under which most we had all the technology modules ready to seproducts would then be sold. Lee Chyan (also lect straight off the shelf. Based on their prodknown as Deric) immediately saw an opportu-uct specifications, we would piece together our nity to grow a business and the following year, existing technologies and design and build the along with a group of fellow researchers at combination they required." Nanyang Technology University (NTU), began creating working WLAN products. RFNet was when, in the mid-2000s, other companies beestablished in 2001 and subsequently spun off from NTU, becoming one of the first companies in Singapore to start manufacturing Wire- this subsequently resulted in a significant drop less LAN Products.

sign Manufacturer) service, which included make a change if they were to survive. everything from product design, component nication related technologies. As Deric ex-

"When an OEM (Original Equipment Manformed as a trade association, to hold ufacturer) customer came to us with a request,

However, things quickly took a downturn gan to enter the market. China's ODM companies aggressively competed in the region, and in business margins for companies in that sec-Providing a complete ODM (Original De- tor. Deric and his team knew they needed to

"We decided to transform our business fosourcing, design and manufacturing, testing, cus to provide technological turnkey solutions and then product certifications and assembly, and customised services for System Integra-RFNet created a host of wireless and commutors, with a focus on government projects. We started to create technology that would help plained, it was the perfect start-up business for customers automate or improve their busi-



**PROFILE PROFILE** 



ness operation and communication needs."

This decision turned out to be a wise move. Within just a couple of years the financial crises hit and, luckily, thanks to government projects not being badly affected, RFNet managed to come through the turmoil stronger than ever.

RFNet has gone from strength to strength since then and has branched out into the private sector as well as continuing the govern-

"As we started out as a manufacturer, we are equipped with the mindset and expertise to conduct detailed system requirement testing before introducing the products to our partners," explains Deric. "This helps the system

integrator partner to minimise technical risk and reduce the time to launch to market – all saving on costs."

RFNet has also found that, as their platform solutions are used repeatedly by many different projects, the quality, stability and features

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of their technology have been continuously enhanced over the years, as the systems have had time to be perfected.

Some of the varied platform solutions RFNet have been involved in include:

- 1. Fixed wireless for point-to-point and point-to-multipoint (up to 60 km). Typically, people use this for wireless backhaul solutions or backup links.
- 2. Wireless infrastructure coverage solutions for bus depots, train depots, schools and warehouses.
- 3. IT security solutions for enhanced network security with server hardening, Firewall, SIEM (Security Incident and Events Management) and wired and wireless intrusion
- 4. CCTV surveillance for in-vehicle surveillance with GPS tracking - mostly used in the rail-
- 5. CCTV surveillance for intelligent transport systems and shopping mall video (crowd)

In 2015, Japanese electronics giant Panasonic decided to invest in RFNet, becoming the controlling shareholder. This partnership opened even more opportunities and RFNet has since been able to pool a host of technologies together, a great deal from Panasonic itself, and offer even more solutions to companies.

Never one to sit still, Deric is keen to continue on this upward curve and has big plans for the company over the next few years. "Currently our business is based mainly in Singapore, but we have exported our solutions, especially in the wireless solution sector, to South Asia, Japan and some European countries, and I would really like to increase this expansion into the European market. In the past we designed and tested products, whereas now we design and test systems. When you design these systems, especially for a foreign market, it requires a more knowledge-based partner to interact with. We need to address how we interact with and educate our overseas partners so that they not only understand our technology but can also capitalise on our designs."

RFNet has managed to place itself in a prime position to provide a first-class, award-winning service but, like many companies, they still rely heavily on their suppliers, as Deric is keen to

"We have a culture where we treat our key suppliers as partners. We have around 15 key suppliers, and we explain to them what our plans are, and then we work together, in order to grow together. For example, if we are working on new technology, we will share this with them and make sure they can both keep pace with us, as well as learn alongside us. We also try to work with the originator of the technology as our main source. This way we hope to avoid any middlemen, in order to ensure our solution is as cost-effective as possible."

The team at RFNet have expertly managed to mould their business in order to maintain momentum. It is only by constantly monitoring their market, their customers, and ultimately themselves that this success has con-

Deric and his associates have an eye for detail and, just like the products they produce, everything comes down to efficiency, innovation and reliability, and it is these components that remain at the core of the RFNet family. 2



