

PCCW Global



packetworx
WE CONNECT THINGS

Case Study:

Revolutionising the IoT landscape **across** **the Philippines**

How to deliver scalable IoT connectivity
seamlessly using Edge SIM

How Packetworx and Console Connect enabled IoT connectivity across 7,000+ islands in the Philippines —

Packetworx stands as the first and only public LoRaWAN (Long Range Wide Area Network) connectivity provider for the Internet of Things (IoT) in the Philippines. With expertise in developing and manufacturing IoT devices, Packetworx offers comprehensive end-to-end IoT solutions across diverse industries.

By partnering with Console Connect, Packetworx has enhanced its capability to serve clients with large-scale data transmission needs. One of its pioneering commercial collaborations is with a leading independent cell tower company, delivering efficient remote monitoring of 5,000 cellular tower assets using IoT devices.

Company overview

Packetworx specialises in designing and developing low-cost, low-power IoT devices and providing public LoRaWAN connectivity. As a social enterprise, its mission is to accelerate IoT adoption in the Philippines by fostering partnerships with system integrators and solution providers. Its solutions cater to utilities (water and energy), smart cities, and agriculture, contributing to the country's digital transformation.

Using [Console Connect's Edge SIM](#) technology, Packetworx has established seamless connectivity across the Philippines' 7,000+ islands. This innovative solution ensures secure, reliable, and scalable IoT network management, enabling the client to:



Enhance security: Traffic is routed via a [private network](#), avoiding public internet vulnerabilities and removing the need for VPNs or firewalls.



Reduce costs: [Direct interconnection with Google Cloud](#) in Singapore reduces egress charges by up to 40%.



Improve service availability: A single [Edge SIM](#) connects to multiple local networks, streamlining operations without requiring multiple SIMs.



Scale with ease: [Console Connect's portal](#) simplifies configuration, management, and network expansion.

Challenge: **Reliable connectivity across a challenging geography** —

With over 7,000 islands, the Philippines presents significant challenges for both fixed-line and wireless connectivity. Packetworx harnesses LoRaWAN's suitability for such environments by partnering with Console Connect to create a robust "data highway." This collaboration extends connectivity to thousands of wireless endpoints, ensuring improved security and reliability for IoT networks.

One key project involved a leading independent cell tower company. This client needed a solution to monitor 5,000 towers remotely while securely transporting large volumes of data to Google Cloud. The IoT devices had to connect seamlessly to local networks (Smart and Globe) and maintain secure data transfer.



Solution: Direct connectivity from device to cloud —

Packetworx provided its tower customer with Console Connect's Edge SIM technology. This approach enabled direct, secure connectivity to cloud providers like Google Cloud in Singapore.

Key features of the Edge SIM solution:



Private data routing: IoT traffic bypasses the public internet, leveraging private networks for enhanced security.



Cloud optimisation: Direct connections to major cloud platforms (e.g., AWS, Google Cloud, Microsoft Azure) simplify inter-cloud communication.



Seamless failover: A single Edge SIM connects to multiple local networks, ensuring network redundancy and efficiency.



Simplified management: Console Connect's CloudRouter® provides private Layer 3 connections between devices, cloud providers, and applications, eliminating the need for additional hardware.

“

Packetworx is honored to lead the way in pioneering the first public LoRaWAN network in the Philippines, transforming the country's IoT landscape. With Console Connect's Edge SIM, we achieve secure, reliable, and nationwide LoRaWAN connectivity, delivering tailored IoT solutions for customers with high data bandwidth and low latency requirements. ”

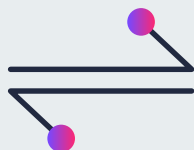
Arnold Bagabaldo
CEO, Packetworx



Results: **A regional data highway** —

The collaboration resulted in an end-to-end flexible IoT solutions for Packetworx and its customers. For customers, like the tower company, data from devices connected to LTE routers on cell towers is securely transmitted to the client's cloud platform of choice.

Key outcomes include:



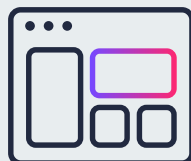
Efficient

remote monitoring of 5,000 cell towers with automated failover to alternate local networks.



Flexibility

to scale IoT device deployment and bandwidth requirements.



Simplified

network management via a single interface, enabling Packetworx and its clients to self-manage connectivity.

This achievement underscores Packetworx's commitment to building a high-performance IoT infrastructure and extending connectivity across the Philippines.



Outcomes: Driving IoT adoption across the Philippines —

By utilising Console Connect's [Edge SIM](#) and [CloudRouter®](#) Packetworx has successfully:

- Established seamless connectivity across the archipelago.
- Enabled secure, efficient, and reliable IoT network for enterprise clients.
- Empowered clients with scalable, flexible, and easy-to-manage solutions for IoT.

With these advancements, Packetworx is well-positioned to achieve its mission of providing LoRaWAN connectivity nationwide, fostering a connected IoT ecosystem that transforms industries and enhances everyday life.

“ *This partnership empowers us with unparalleled agility and control over IoT networks, enabling seamless scalability and fostering innovation with confidence.* ”

Arnold Bagabaldo
CEO, Packetworx



How do I **sign up?**

- Take control
- Cut complexity
- Make interconnection effortless

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Have other questions we didn't cover?

Join our community of experts.



www.consoleconnect.com

Talk to us: sales@consoleconnect.com