Singtel

Integration: Streamlining Data Flow to Empower IoT

Streamlining the flow of data for Internet of Things (IoT) initiatives is both a science and an art. The glue that holds it all together is integration, empowered by hybrid computing.

Finding the way with integration

41% of businesses globally have implemented a hybrid solution, while 36% use a multi-cloud environment.[1]

The private cellular network market is expected to grow 722% from $1 billion in 2023 to $10 billion in 2028.[2]

There will be more than 150 million cellular devices connected to on-premise private networks in 2030.[3]

Private networks are growing in popularity, driven by changing data regulations.

Public networks offer numerous business benefits, including remote working.

The only way forward is integration, enabled by hybrid computing solutions.

The power of private networks for IoT

Private networks offer lower latency, critical security, lower ongoing costs, greater customisation and advanced control.

What public networks bring to IoT

Public networks offer ubiquity of location, greater accessibility, the potential of greater bandwidth capabilities and faster deployment.

Bringing in hybrid solutions

While all hybrid solutions are unique, they have **some key traits in common**.

They offer the ability to **integrate and synchronise** data across public and private infrastructure.

They enable network connectivity across **private clouds, public clouds and legacy infrastructure**.

They provide **unified management for users**, consolidating management of clouds and connectivity.

This offers **numerous benefits**, including:

Ensuring optimal application performance across platforms with **greater flexibility.**

Enabling granular application and data governance, depending on location.

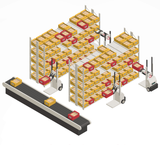
Reducing costs and using only what is needed, with both capex and opex spend.

Allowing IoT assets to be tracked seamlessly within both private 4G/5G and public networks.

Hybrid computing and IoT in real world use cases

Smart factories

IoT empowered by hybrid network solutions enables devices, sensors, and software to monitor and optimise production. **Predictive maintenance and energy optimisation ensures maximum ROI.**



Supply chain tracking

IoT provides the ability to track and monitor the movement of goods on the supply chain, from manufacturer to distributor, ensuring greater agility and resilience. **Hybrid solutions remove complexities of managing IoT trackers.**

Fleet management

IoT brings many benefits, including enhanced route planning, automation of admin tasks, preventive vehicle maintenance, and improved driver safety. **Hybrid computing streamlines data management.**

Cut out complexity with expert support

Tapping into a robust portfolio of mobile connectivity solutions through Singtel can streamline the process of integrating public and private networks to enhance your IoT initiatives.

Singtel offers advanced hybrid cloud solutions that deliver:

High performance and security

Low latency

The ability to simplify local and regional deployments

IoT expansion with an end-to-end connectivity solution

Include different connectivity solutions through a unified dashboard

Leverage a compelling multi-domestic connectivity solution

Learn about Singtel's network and IoT services. Contact us

References:

1. Frost & Sullivan, Strategic Hybrid Cloud in Enterprise IT to Improve Performance and Data Regulation, 2022
2. Juniper Research, Private Cellular Networks: Market Forecasts, Strategic Recommendations & Opportunities 2023-2028
3. Transforma Insights, Mobile private networks will connect over 150mn cellular IoT devices by 2030, says report, 2020