Synap

IoT Connectivity

Low-Power Wide-Area Network

(LPWAN)

Frank Tsui

Synap Technologies Ltd

Who We Are?

Synap provides **Private IoT** Network to enable any sensor or meter connectivity

"Out of the box LPWAN

connectivity solution that feels

like WiFi"

Modem

Device enabling any IoT sensor/meter with wireless connectivity to the IoT Network

IoT Gateway

Industrial grade network gateway providing coverage for private IoT Network.

Cloud Controller

Centralized network provisioning platform with intelligent network management and data storage.

Management Team

Synap

Frank Tsui
CEO
Wireless veteran

Dr. Andreas Gaarder
VP, Product Management
Systems engineer

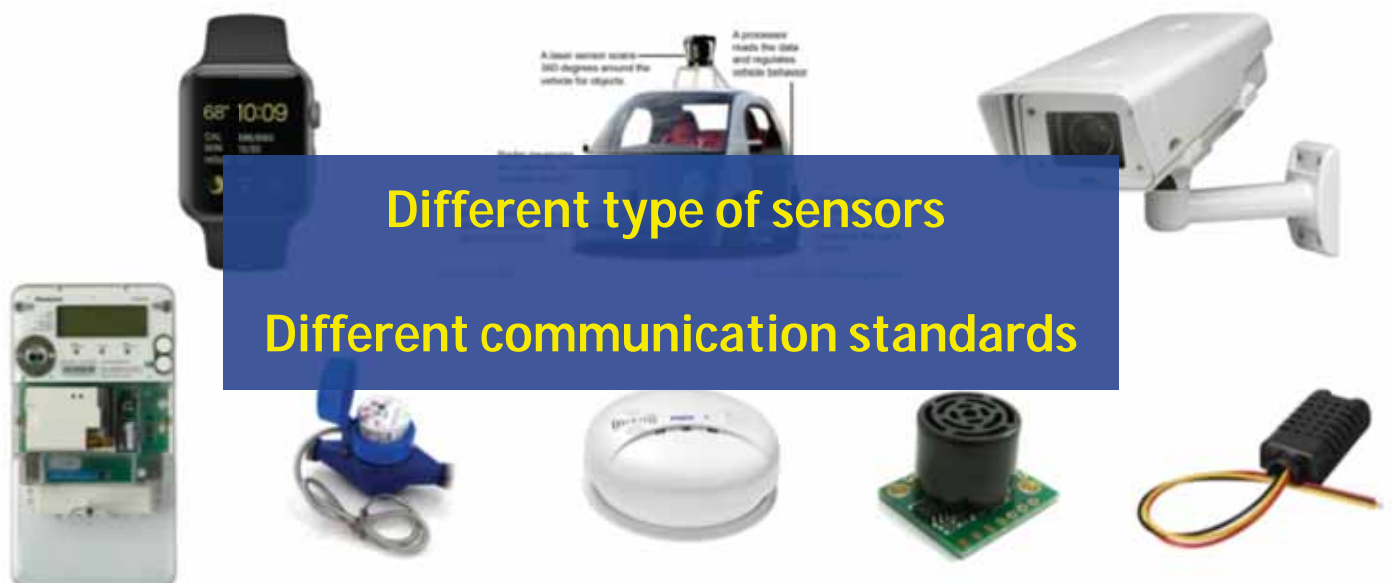**Thomas Kwan**
CTO
System architect

Sweden:
Industrial hardware design

Hong Kong:
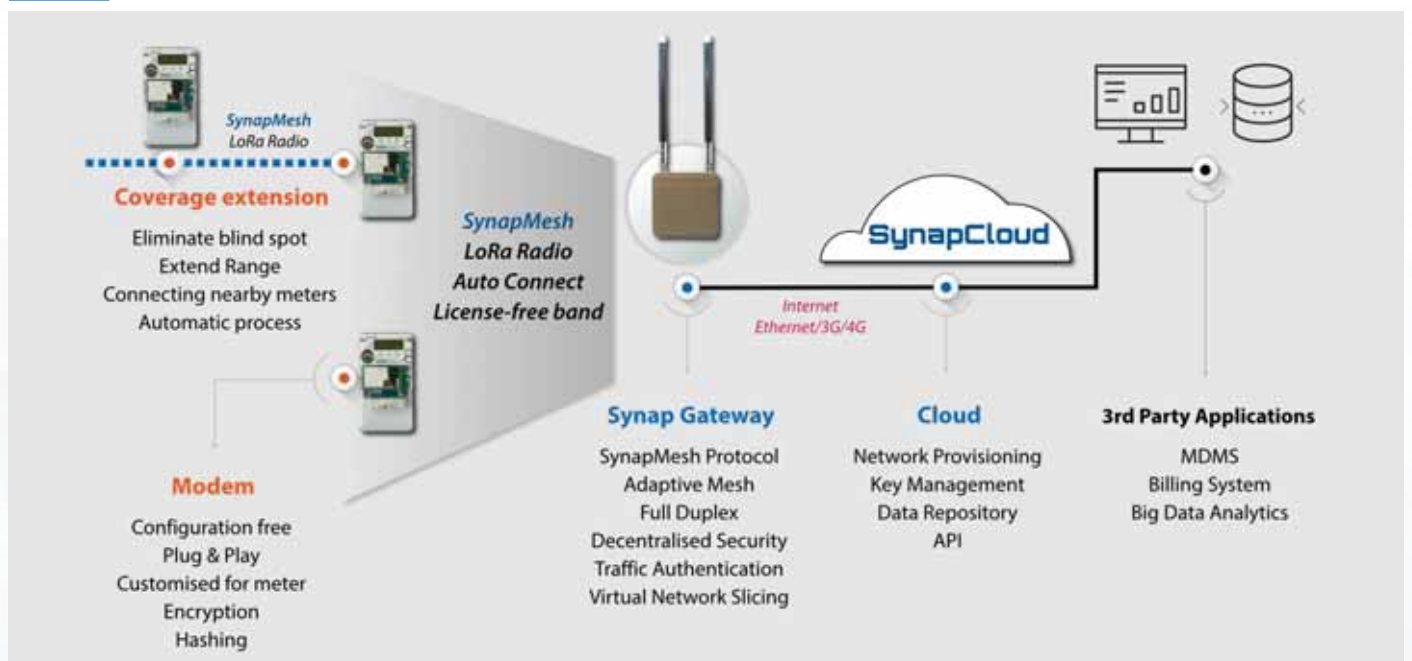System design
Supply chain
Operations

IoT : A Fragmented market

Synap

Different type of sensors

Different communication standards

Wireless Serial Comm.

Customised Modem

For Utility Network

Advanced Metering Infrastructure

Standard IoT Modem
Ava. Sep 2019

- Modem Terminal
- Sensor device profile support
- Plug & Play
- Standalone operation

Synap IoT Gateway

- Industrial Grade
- Dupont Engineering Polymer
- Chemicals and UV resistant

System Architecture

SynapMesh LoRa Radio

Coverage extension
Eliminate blind spot
Extend Range
Connecting nearby meters
Automatic process

SynapMesh LoRa Radio Auto Connect License-free band

SynapCloud

Internet Ethernet/3G/4G

Modem
Configuration free
Plug & Play
Customised for meter
Encryption
Hashing

Synap Gateway
SynapMesh Protocol
Adaptive Mesh
Full Duplex
Decentralised Security
Traffic Authentication
Virtual Network Slicing

Cloud
Network Provisioning
Key Management
Data Repository
API

3rd Party Applications
MDMS
Billing System
Big Data Analytics

Benefits

Bigger Ecosystem

Low entry barrier for IoT solution developers

Private IoT Network

For any serious customer who requires to operate their own network infrastructure

Plug & Play solution

End to end Wireless Serial Comm. No networking or programming training required

Thank you

www.synaptechnologies.com