

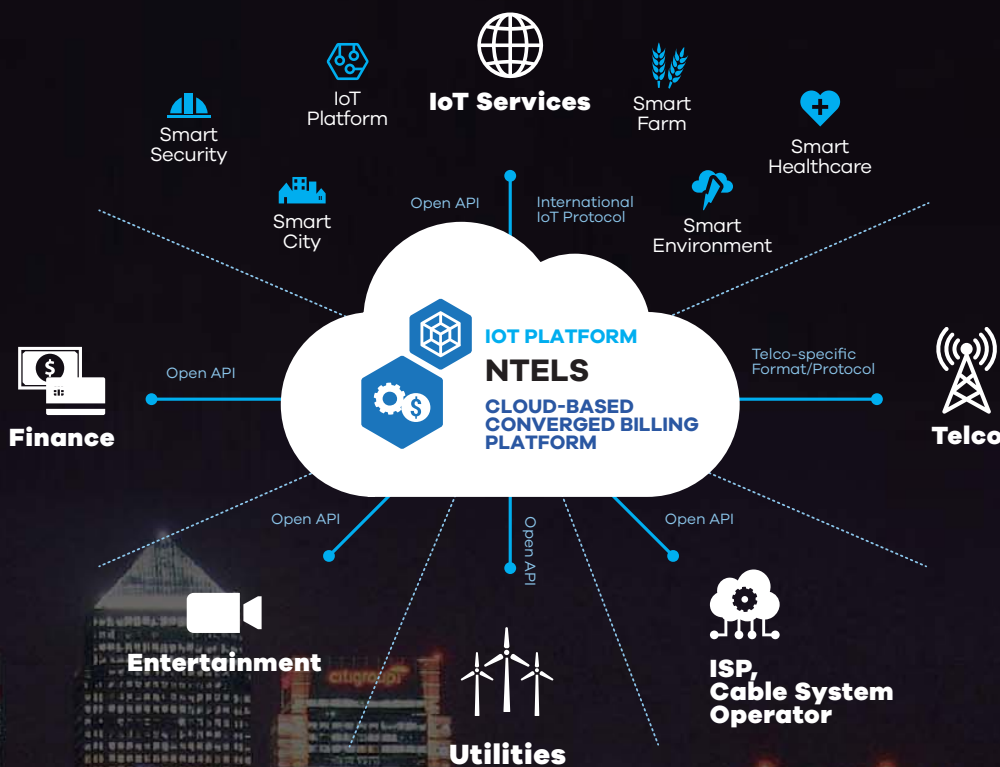
NTELS CLOUD-BASED CONVERGED BILLING FOR IOT SERVICES

Connect to the Right Billing Platform

The successful monetization of the IoT market takes more than just connected device working together.

You need to choose the right billing platform for reliable, accurate and comprehensive billing management.

Our cloud-based converged billing is a best-of-breed solution for monetization to help any enterprise that does not have in-house billing capabilities. Whether it is a mobile operator, IoT service provider or municipality, the platform enables business to create new revenue sources from IoT services.



BILLING MODELS

B2C

Business-to-Consumer

For businesses that want to charge their end customers directly for their services, including mobile and cable system operators

B2B

Business-to-Business

For mobile network operators so they can charge businesses (e.g., financial institutions) that use the MNO's infrastructure

B2B2C

Business-to-Business-to-Consumer

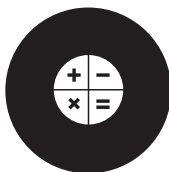
For businesses without their own billing system, for example, IoT service providers who plan to roll out a white-label IoT service

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FAST TIME-TO-MARKET

Easily and rapidly configurable pricing and marketing plans using a simple and friendly graphical user interface so that you can quickly bring your IoT services to a wide variety of verticals



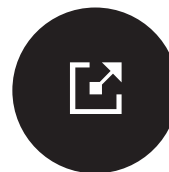
Low CAPEX & OPEX

Cloud-based offering that requires less substantial ongoing investment than on-premises offering to minimize your CAPEX and OPEX costs



EFFICIENT SETTLEMENT

Broad support for a complex value chain of partners, with no limit to the number of organizations or the interconnection agreements and settlements involved



FUTURE-PROOF SCALABILITY

Ability to expand IoT business models in verticals, find dynamic strategies to maximize revenue, and scale to meet the needs of the rapidly-changing IoT market

KEY FUNCTIONS



Self-Care Portal

- Customer portal for accessing the platform
- Self device registration & activation
- Self subscription activation / deactivation
- Self SIM & subscription change
- Usage charge view
- Device status & location monitoring



Admin Portal

- Flexible customer account management
- Product package management
- SIM management & assignment to customers
- Developer management
- Application management



Charging and Billing

- Price plan creation & management
- Usage rating by processing CDRs from the mediation system
- Service charging according to the pricing plan
- No boundary of product & service bundling (data/voice/SMS/MMS/DC/Fixed-IP)
- Bill processing according to the billing cycle
- Invoicing & payment handling



Provisioning Gateway

- Provision of APIs for interworking with service platform (for product subscription, charging information, etc.)
- Support for various protocols, such as TCP/IP, SOAP, XML, SPML, HTTP, Telnet, FTP, and SFTP

USE CASES

IoT Billing Platform for MNO in Malaysia

We signed a strategic teaming agreement with a renowned mobile network operator in Malaysia. Since then, we have been developing and providing M2M/IoT business solutions for this premier and most experienced mobile telecommunications company in Malaysia.

With our IoT Billing Platform, the MNO has been able to provide best of breed M2M/IoT services that help derive more business value for its customers.

The MNO was awarded for the four years in a row at the 2017 Frost & Sullivan Malaysia Excellence Awards. The company received for the second time the Customer Experience for Telecommunications Industry – Overall and was also named the M2M Service Provider of the Year.

IoT Billing Platform for MNO in Singapore

We have been in a strategic partnership with a mobile network operator in Singapore since the company launched its advanced M2M (machine-to-machine) platform in 2015. The MNO is Singapore's most vibrant and dynamic communications company.

Through the advanced M2M platform, corporate customers have been able to access, track and manage all their connected devices conveniently, from any authorized computer or mobile phone. They have also been able to set and change business rules, perform device troubleshooting and obtain detailed reporting of all M2M activities.

As a major component of the M2M platform, our IoT Billing Platform enabled the MNO's customers to leverage the IoT technology, improve their productivity, lower their costs and tap on new market opportunities.