

M2M Connected Services

NTELS M2M Connected Service (MCS) is an integrated operations solution for M2M-related services.

The solution consists of the Self-Care Portal for monitoring of customer services and devices and Admin Portal for management of customers and SIMs, and billing solution for fast, accurate charging and billing. With rule-based creation of service packages, MCS allows service providers to quickly apply to M2M-related services, which can help reduce operational costs and improve customer satisfaction.





Business Models

Communications Service

- Real-time and periodical billing for fixed/ mobile (voice/data/SMS), Internet, VoIP, and IPTV services
- Support for WCDMA, LTE, and IMS networks

Cable TV Service

- Billing for cable TV, video content (VOD), Internet, and VoIP services
- Quadruple service: bundling of cable TV, VoIP, Internet, and MVNO services

SMB B2B e-Commerce Service

- Billing for B2B e-commerce services for small/medium businesses
- Support for pre-billing¹ and SaaS²

Utilities Service

- Batch billing for utilities services
- Support for various billing cycles

Gaming Service

- Billing for online and mobile games (usage or content-based)
- Support for prepaid and postpaid billing

Consulting Service

• Billing-related comprehensive consulting for SMB

Note 1:Pre-billing refers to the process of collecting service-specific usage data and converting to billable format.

Note 2:SaaS (Software as a Service) refers to the delivery of the software through the Internet to multiple customers/tenants.

Features

Real-Time Device Status and Charging Data Monitoring

- Device status (activated/deactivated) and location monitoring for customers
- Real-time collection of usage logs to provide account-specific charging and billing data

Self-Care and Admin Portals

- Self-Care Portal for customers to manage and monitor their devices and subscribed services
- Admin Portal for operators to manage customer profile, and monitor customer revenues and the usage of resources (SIM and MSISDN) assigned to the customers

Rule-based Engine

- Charge calculation based on the rules defined in the Product Lifecycle Management System (PLMS)
- Fast implementations of new pricing schemes without modification of the application code

Component-based Design

 Component-based scalability and flexibility, which enables the operation of selected rating/ billing functions, easy functional expansion as the business grows, and adaptability to a wide range of M2M/IoT services

IoT Billing & CRM

M2M Connected Services



Key Functions



Self Care Portal

Self-Care Portal for customers to view the status of M2M services and charging data, and register devices with the system

- Customer portal to access M2M/IoT platform services
- Device registration and activation by customer
- Service subscription and termination by customer
- SIM and contract change by customer
- Usage and charging data
- Device status and location monitoring

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Admin Portal

Comprehensive management of customers and resources for M2M services

- Customer account management
- Package product management
- SIM management and assignment
- Developer management
- Application management



Rating and Charge Calculation

Real-time collection of usage logs and rating/charge calculation according to the pricing plan of customers

- Real-time usage log collection
- Product and customer information collection
- Collection of usage-based charges calculated in rating
- Onetime charge, recurring charge, and discount calculation



Billing

Calculation of the bill amount based on the charging data per payer basis and generation of invoices

- Real-time usage log collection
- Product and customer information collection
- Collection of usage-based charges calculated in rating



Provisioning Gateway

Provisioning gateway interfacing with legacy network elements to send orders made through the Self-Care or Admin Portal

M2M/IoT Platform for MNO/MVNO

We implemented an integrated M2M/IoT service operations system for product & customer management, charging, billing, and invoicing. With rule-based creation of service packages, the system allows MNO/MVNO to quickly roll out new services and pricing schemes without modification of the application code.

Background

- Increasing complexity of charging models and need for multi-play services
- Demanding requirements of interfacing with network elements
- Needs for comprehensive statistics and analysis on processes

Implemented Solutions

- Product Lifecycle Management System (PLMS)
- Mediation
- Rater
 - Provisioning
 - Billing & Revenue Management (BRM)

Benefits

• Customer Self-Care Services

Our Self-Care portal allows the customer to register devices with the system and view the locations of devices, real-time charging data, and bill amount.

• Minimized Errors, Dynamic Pricing, and Bundling

Operational efficiencies have been improved with rule-based convergent charging and billing, which minimizes errors in charging data and enables dynamic pricing and bundling of products and services.

Streamlined Billing Process

All tasks related to billing have been streamlined and as efficient as possible through adoption of flexible rule-based billing infrastructure and optimization of the operating environment (e.g., re-definition of processes and optimized scheduling).



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CJ Hellovision MVNO System

Creative Convergence
 Headquarters
 Tel +82 2 3218 1200

 China
 Tel +86 10 6567 8305

 Indonesia
 Tel +62 21 380 8104

Fax +82 2 3218 1299 Fax +86 10 6566 9705 Company info@ntels.com Sales sales@ntels.com